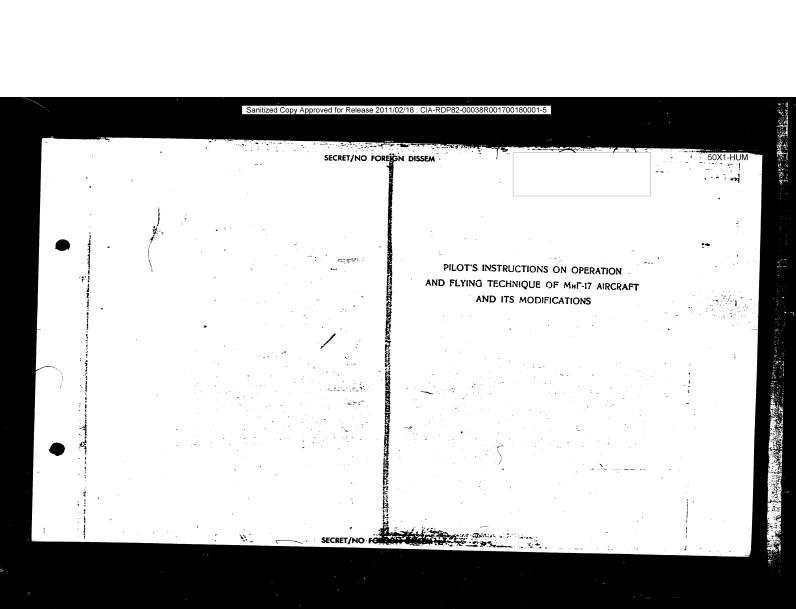
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PILOT'S INSTRUCTIONS ON OPERATION
AND FLYING TECHNIQUE OF MIG-17 AIRCRAFT
AND ITS MODIFICATIONS

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PREPACE

The tectical fighter fmf-17 and its modifications fmf-17; (a, x2), equipped with angine M-14 (or M-10), are noted for their high performance, powerful armamet and special equipment, which allow these to carry out their contex these and all attitudes, up to the sections of lings, in standard and advarse weather condition is the caption and is night.

The greenest instructions are next as a pilot's guids on the operation and piloting technique of the fmf-17 aircraft and its modifications.

I. PREPARATION FOR PLICET

L. Refore the flight, the pilot abould receive a report from the ground engineer on the reciliness of the aircraft for the flight mission and on the securit end grade of feel (fe-1, 25-4 or 5-2) filled into the fuel tanks.

INSPECTION OF AURCRAFT

Reserve the aircraft visually, exting with due care to strid accidental firing of aircraft gums. While doing so, check to see that:
 (a) no dents or any other desage is observed on the fineslage skin, wing and tall made:

(a) no dents or say other usesor —

tail safts;
(b) the deflection of the mose and sain landing gear wheal tyres is normal;
(c) the covers are recoved from the gums and the pitot-static cube and no p;
is detected in the ettachment brecket of the extension tube;
(d) the true tabe of the elevator and allerous are in the neutral position;
(e) the organic glass parels of the cocipit campy have no cracks and are

visca.

tion.

3. If drop fuel tanks kere evailable, check toom for proper attachment and tightness, and see if the tank synchronized autoestic jettimes selector section, sounted under the left cantilever of the aircraft wing, is in the CF (TANES) position.

4. Sith air bombs suspended from the structft, check shothers
(a) the caliber and type of air bombs comply with the bombing missions
(b) the fuses which the bombs are equipped with are adequate;
(c) the air bombs are properly suspended and attached to the bomb racks, and
bomb frees are properly lucked;
(d) the tank synchronized sutcompties jettiens edlector switch is set in the CTF
BEIL PRESISTANCE.

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DESPRETION OF COCKETS

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5. Examine the excipit using a special learnth locker installed at the pure of the standard coulput. Maile doing so, when he see that:

(a) no foreign expirate are found imaids the excipity;

(b) n) water (ice) or ferring objects are present on the coulpit flowr under

Sees!

(a) this must berease is properly straightened; the harmone strape should be
ged with the because the society walls;

(d) the fire control push-button of gus E-j7 mounted on the sirruraft control
is and the six book textical release push-button are covered with safety guards;

(a) the safety red cup is fitted on the six book measuremy release push-button
is located on the book measured selective control panel);

(f) the energy jettings levers (also used as the ejection seat firing mechanism)
rightly fitted to the seat are restel;

(g) the ground locks are installed into the ejection seat firing mechanism v

(h) the ground locks are installed into the ejection seat firing means in lead;

(1) the firstble cord safety pin, connected with the cliding hood, is fitted into the firing sechanism head solits;

(3) the cancry jettions locks are securely fixed and the parts of the guiding been locks, and the cancry rollars are five of dirt, ice crust or damages;

(b) the safety harness that the sechanism [1-5] is securely fixed and the representation of the right-hood sast bulk and the mechanism pull cord is connected with the cord of the safety harness lock;

(3) the Li-3-time release sociantizm is set for a time delay of 1.5 sec;

(b) the firstble pin of the Al-3 time release sechanism is locked and the fixelihe pin ripcert is festimate to the directif board;

(c) the control last lock is released.

(c) the control last lock is released.

(d) the control last lock is released.

(e) the sechanism had did sheet to be successed the pilot should check to see that the ground safety lock is recovered from the firing sechanism head in the rear section of the seat headrest, the air safety lock vire snap book is connected to the cancry ring, and the safety lock is fitted into its seat.

PREPARATION OF ANTI-Q SULT MINE-I

7. The anti-6 suit serves as a sease for increasing the pilot's resistance to seasifarable 6-loads, both in againtuse and tive, arising during the flight.

5. Each fighter pilot abouth properly select the size of the BELT anti-d suit and fit it to suit has height (the sizes of the satis-0 suits in relation to the pilot's height are given in the Operating Instructions on Anti-0 suits HHLT). Departing on the season, the anti-0 suits may be fitted both above the abirt, trousers autrom-top high boots over the flying suit, and incide the fur or wide-top high boots.

beets. The ties required for fitting the suit must be about 5 to 8 minutes, and that necessary for putting on the fitted suit is 1 to 2 minutes. Sails fitting or putting on the suit before the fittint, check to see that the sit blacker that fitting or putting on the suit before the fittint, check to see that the sit blacker that fitting the thoroughly broad into the suit and the sitpers on the trouser large free inside. The anti-d must should allow free accessor on the ground and must not reprint the pilot's

actives inside the cochpit when operating the sircraft fittings and when tiletting

PREPARATION OF PARACHUTE

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to, before putting on the parachete, the pilot arealizes it and checks:

(a) the EM-5 paraceute release craired unit for proper operation time adjusts to seat (the unit altitude adjustment must ensure parachute opening at an altitude of anisama 1000 a above the overflown terration);

(b) the Hawible pin of the parachete release control unit for proper locating that the desired for proper sections.

(b) the flexible pin of the parabitic release control unit for proper localing and the ripcord for proper partiag;
(c) the parabitor release control unit flexible bies for a sound contigion and secure commention to the flexible boise of the parabitate;
(d) the parabitor release control unit flexible hose for proper commention to the bearing strip of the parabitor pend flexy;
(d) the parabitor please control unit of flexible hose for proper commention to the bearing strip of the parabitor pend flexy;
(e) commention of the parabitor pend pin.
Chose the parabitor pank flexy and put on the parabitor.

The the parabitor pank flexy and put on the parabitor.

It is allowed to lay the fitted parabitor on its set pan before the flight. In the latter case, the plot or ground engineer (taking not in the complet, and features the rip chain of the parabitor open syntams to the ring on the left-tone to the phasin of the parabitor tonery as syntams to the ring on the left-tone control pased and comments the house of the parabitor and surrent apparatus.

Bering taken his sear in the occept; the fillot should only not on and trails the parabits the parabits the parabits of the company jettless leave, in flight.

CERCKING OF AIRCRAPT EQUIPMENT AND PITTINGS APPEAR EXTERNAS COCEPIT

CRECKING OF AIRCRAFT EQUIDMENT AND FITTING SPING EXTERNING OCCEPT

12. Nake were the aircraft battery and all circuits breakers both on the right and lart panels are cut off; pay special attention to the circuit breakers of aircraft armanent.

13. Place the tose on the pedals union the strape and adject the pedals according to the length of the legs.

14. Check height adjustment of the ejection seat (the eyes abould be on a level with the sight reflector).

15. Check the fantaning of the parachute calcase control unit filestible pin ripcord to the left arm rest of the ejection seat.

16. Pelease the shoulder harmone, lifting the harmone locking lever all the vary up. After elifting the shoulder harmone to the rearrost position, lock these by lovering the locking lever all the vary of the provided the locking lever all the vary up. After elifting the shoulder harmone to the rearrost position, lock these by lovering the locking lever all the vary of the provided provided to the case that the shoulder harmone, lean tightly against the back of the ejection seat and tighten up, first, the seat belt and, then, the shoulder harmones. Check to see that the shoulder harmone shall loops are properly aligned in the lock.

15. Give a Lemand to the ground against to recove the ground safety lock pins from the ejection said fring sechalize head and from the energy justicen right-side bondle.

Check 16 the among the provided and from the energy justicen right-side bondle.

from the ejection seat issue which plans are recoved.

Check if the ground safety lock pins are recoved.

19. Check operation of the shoulder horness locking sectionism, for which purposes (e) lift the shoulder horness locking heart to the upperment positions

(b) leading the body forward, chest and tension of the shoulder harm

springs
(c) been tightly against the back of the iffection seas, lower the aboults
homers locating lever all the way down and, tilting the body, oben't if the har

harmons beeding lever all the say does and, tilting the body, obe-1 if the larrows he lained.

2. Here sure the siliting tred is preparly closed and can be easily opposed, 2. Best sure the siliting tred is preparly closed and can be easily opposed, 2. Best the aircraft engine control lever for swooth travel; 22. Best to see that the reserve of compressed air in the six supply system is engitivered. Air pressure about best is engitivered. Air pressure should best (a) in the lasting gear energony bottle - minima 30 kg/sq.cms; (b) in the lasting gear energony bottle - minima 30 kg/sq.cms; (c) in the figure swortcopy bottle - minima 100 kg/sq.cms; (d) in the figure swortcopy bottle - minima 100 kg/sq.cms; (d) in the figure energony bottle - minima 30 kg/sq.cms; (d) in the figure energony bottle - minima 100 kg/sq.cm; (d) in the reserve pressed rithin bose and the profiles for proper school read event, there must be not have a first the said to present of the brake first-rieg level), the pressure gauge should read 8 kg/sq.c.; (d) the first-rieg level), the pressure gauge should read 8 kg/sq.c.; (d) the first-rieg response.

2. Onch the interful with and prime for freedom of suversent, and the control levels for the pressure gauge should read 8 kg/sq.c.; (d) the sure first proper senger-sent; check the first-rieg rand chair the base of the prepares turn the pressurating to the riegy rand chair the tamopy locks for proper engagement; check the catoly, treespy filling the base with air, while doing so, no liesing of the engage and the confidence of the sure sure first the catoly the prime first the hold of the pressurating hose with the canopy found to be red to be the callition of the pressurating hose with the canopy found to be red to be treed to be read to the best to be red to be read to be read to the best to be red to be read to the best to be red to be read to the best to be red to be read to

Cartion. Do not check the condition of the pressurising hose with the campy open, to svoid the bread of the hose,

26. Check if the control keep of cockpit pressure costroller PA-288 is pro

If acreed,

77. Check the charging of aircreft bettery under load, for which purpose out
in the battery and the radio set aircreft breaker and press the voltamenter push-briton (the battery voltage should be minimum 20 7). After gheeking, cut off the radio
set.

28. Give a command AV IN INCHESTIFF and, on receiving the ground entineer but report NOW SUPPLY CS, check by the voltage terral acts if entural power any is properly commented (the voltage abouth be stations 28 7).

39. Out in the gree borsion circuit breaker and the JMM, renote-residing give in describe compass to prepare then for operation as ground to the LMM give because it describes a speed ensuring mornal operation of the ground to the LMM give in develope a speed ensuring mornal operation of the grown begins a true action give power supply has been out in. The survived billy or the JMM resource resident grown property to compass to restored one minute after cutting in the circuit beasers.

Alies, To expect for the statement of the grown of the circuit beasers.

heavestic cocyass is restored one minute miter cutting in the circuit of section.

Jids. To provide one the staining time space impaired to bring the BFW gard and the set as expected condition, before cutting the BFW gard arising press the staining condition, before cutting the BFW gard arising press the staining provides the bring provides of the sections and time release that the BFWW gard temperature is below -30 cutery the push-button pressed for 5 - 8 seconds.

90. Out in the circuit breaker of the tria tabe and check operation of their electric actuators. If the elevator tria tab switch is present forward, the tria SECRET/NO FOREIGN DISSEM

tab must deflect upward and if the switch is present bose, the true has abould

deflect comments.

Then presents the alteron tris tab selector switch to the left, the tris tro
should deflect downearis, and whon presents it so the right, its tric tal about

et upwerces Set the trim tobe neutral (the elevator trim tab is metaby the white signal

lamp).

31. Check the laming spor warning system for proper functioning.

31. The warning system crystoling properly, three green warding lights association up and the landing some storic position indicators on the wine and feelings about he in the extended position. To check the conditions of the landing spor ID position marring lights, press the check bitton; as a result, the red warning lights should fishing.

should flash up.

2. Out in the instrument circuit treater. Thile foing so, the pointers of
the fuel and oil pressure gauges should be set at zero, the oil thermostae pointer
abould read the inlet oil temperature, and the fuel level gauge pointer abould cose
against scale division 1000 litres.

3. Check the realizes of the clock and wind it, if necessary.

3. Set the elimenter pointer at zero.

Couting Reference of which

in Salors the flight, check the condition of the burneter's sitiatier, containing the value of the saler's presume strained from the prescribed station with the prescribed station with the prescribed by the all actor set evices alitted.

35. Check the ogravation of the gromagnetic compane, for whice purpose, presents the push-button sales the systems of the NULL record-receiling promagnetic compane. The compane studies positor abound reset the adversat broking and, with the risk and pinion shifted to the left or to the right, the compane pointer should follow the turning scale.

36. Check the condition of the gro borizon (for tilt of the instrument groscope Than, out off the instrument.

BADIO EQUIPERE CHEMITOS CERCE

37. To check the operation of the radio set, proceed as follows:
(a) connect the detachable plus scokes of the telephone conf;
(b) set the selvitor switch queste radio set coursel panel in the biomytics all positions.

(b) set the selector switch opeths radio set course pass; is we seem (SPAS) position;
(c) out in the RADIO (TAUSO) circuit breaker;
(d) wait i or 2 sknows and, then, out in the ascessary radio channel by pressing the push-button on the control pass);
(e) press the transmitter switching botton and call the ground radio station;
(f) using the volume regulator on the control path, elect the notestary volume of signals received;
(e) cheek the operation of the radio set on the other three channels after received.

After checking the operation of the radio set, switch on the measure; radio channel and out off the RADIO circuit breaker.

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ATROBAFT TRANSHINDER CHACE .

33. To check the operation of the aircraft transponder priced as follows: (a) cut in the INT-5 submatic ratio compass and sireraft transponder circuit breaker, and the twin switch on the sireraft transponder control deak, as a result, the green signal lamp and, then ease seconds lature, the yellow signal lamp sounded on the returned deak should light up; (b) set the required code on the sireraft transponder control deak; (c) cut off the aircraft transponder.

APK AUTOMATIC RADIO COMPASS CHECK AND TUNING

39. Sheek the operation of the AFK automatic radio compass in the following

AN AUTHORITO MADIO CHURAN CHURAN CHURAN TUBBER TORSES

39. Check the operation of the HIT automatic radio compass in the following crees:

(a) close the compit campy (since the loop is located on the aliding hood);

(b) set the compit campy (since the loop is located on the aliding hood);

(c) set the create radio compass range selector switch to the CUTER HOWING (count) part);

(c) set the remote radio compass range selector switch to the CUTER HOWING (count) part);

(c) set the remote radio compass range selector switch to the CUTER HOWING (count);

(d) cat the transferred of the inner hooing station;

(d) cat the remote radio on the control panel of comminication radio set the transferred switch on the country land of the transferred switch on the country land of the transferred switch on the radio campas country land in the LOOP (c) rotate the LOT EMPLOY (LOT — UNITY) circuit breaker and with 1 - 2 minute until the receiver tuning handle, see that the tuning indicator pointer is entitled to the radio as far as possible;

(c) protect to the radio as far as possible;

(d) part of the tradio campas in the security downs, if necessary, by the part of the country horized the country land of the LOOP (LOT) knob;

(d) entitled country land to it; particle position,

(e) retain our handle campas to the inner honing station, for which purpose the LOOP ROUND STATION (LININGS) and the protection of the land handle sure the radio compass to the inner honing station and make sure the radio compass to the inner honing station and sake sure the ratio country tuned to it without additional trianing. If necessary, the radio compass to the inner honing station and then, check tuning to the LOTE station of the lot of the LOTE station of the lot of the LOTE station and then, check tuning to the lote of the

PB-2 PADIO ALCHESTER CTERATICS CHECK

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PB-2 PADIO ALCHAUTES CTEMATICA CHECK

a), To check the operation of the PB-2 cadio altimater, proceed as follows:

(a) cut in the PB-2 - MADION (PB-2 - MADION) chroic breaker;

(b) cut in the PB-2 - MADION (PB-2 - MADION) chroic breaker;

(c) cut in the PB-2 - MADION (PB-2 - MADION) chroic breaker;

(c) set in the colorivate chronicing the instrument handle, bearing the inaccription (by, in the clockwise chronicing the inaccription (MININE) handle to the left and wat 1,50 2 almoster familit the transmitten-receiver values are warmed up. With the redio sitianter functioning properly, the slittude indicator pointer should elser the lower atop and stop at the sero index-like, accurate within 22 m;

(4) cut off the radio altimater circuit breaker.

AIRCRAPT CHECK REPORE HIS PIRITS AND SCHOOL MISSION

(c) the types of nonre supposed not their tunes, and the value of time cally set.

42. Check if the sight reflector is clean.

43. Dut in the SIGHT HEATHS (GEOTED SPILEM), SIGHT (HFHEM), RADIO-RAWER

FINCE (FALLES) circuit breakers and check:

(a) he sight restlict lighting for smooth change;

(b) operation of redio-range finder by changing the range setting from 180 to

500, with the case line being equal to 55 m; and the base satting from 180 to

500 and the base satting from 180 to

for this propose, set the RADIO - OFFICE (FALES - OFFICE) changes are stated as

the sight selector switch in the OFFICE position;

(c) grossops electric motor for proper operation and the reticle for clear

(steplay when the switch handle is set to the GTBO (TWPO) position;

(d) operation of radio-range finder (better the high voltage lamp burns),

buring this check, the sight selector switch should be set in the RADIO position.

44. Kake sure there are two spare lamps for illustrating the sight in the

cockpit.

45. Lock the eight gyroscope by setting the switch handle in the FIXED (BENUE,)

position.

46. (Leck the bond arraneant varning syste, for which purpose put the ADEO SATE (RUNG - NUMBER) change-over switch in the ADEO position, Out in the six
bond tactical and energency release circuit breakers and checks
(a) whether the two upper white warning leaps are lit up, indicating that six
bonts are suspended from the bond racks;
(b) if the lower red warning lamp burns, indicating that air bonds will be
released at ADEO.

released at ARCED.

AP. After checking the bonb armament warning system, but off the air bomb taolical and searcesty release circuit brakers. Our off the sight circuit brackers
in the rewerse order, i.e. first, out off the BIIO - RESI FIRST circuit brackers
and, then, the SIGHT and SIGHT HEALTS circuit breakers.



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the before extending the abstract store. Addition friends

to before extending the attending charite

(a) parallulate extend upwarming and the bords for inventing disease.

(b) extend several extending of the better for inventing disease. The

(b) of the sease in the source of the parachuse oxygen apparatus. The

(c) if the sease that the procedur over is interet;

(d) if the diseasements plus of the parachuse oxygen apparatus for proper

(d) the diseasements plus of the parachuse oxygen apparatus for proper

(e) the diseasements plus of the parachuse oxygen and content fitting into

the seasy significant the content, extends the plus onto the ring on the letter

(e) the extending the content, extended oxygen regulator with the intermediate

the parachuse oxygen apparatus.

(iii) the base being charen, extend should not lesk from the parachuse oxygen

(apparatus).

Fifth the bese being sharm, cargem should not leak from the parachute cargem styretish.

51. Check the condition of the cargem apparatus, cargem sark, hose, cargements, intraction, and personne gauget whe more than are free of extentor Canage.

51. Check the condition of the cargements are free of extentor Canage.

52. Charmonly fit the cargements to the face and check the mark-to-face that the cargements are the parached from the purpose cleap the corrupted hase and take a breath. If herether the properties of the cargements and the attachment of prove the connection of the cargements for the apparatus and the attachment of the cargements of the apparatus and the attachment of the cargements of the apparatus and the attachment of the cargements of the apparatus of the parached force in a cargement of the cargements of the cargements. The care the cargement of the cargements are carried to the cargements of the cargements are carried to the cargements. The care the cargements are carried to the cargements of the cargements are carried to the cargements of the cargements of the cargements are carried to the cargements of the cargements of the cargements of the cargements.

53. Chear the cargement cargements apply against functioning property, the interest of the cargements are carried to the cargements the carried carried to the cargements are carried to the cargements are carried to the cargements are carried to the cargements the carried carried to the cargements are carried to the carried to the carried carried to the carried carried to the carried carried carried to the carried carried carried ca

families. Eithe carefular the extract energies supply system, do not haster the families only booking over or empressing the corrugated hose of the

HERMAN CHECK BIRORS MIGHT PLACES. St. frien to night flights, check the night lighting squipment, for which pur-

(a) taking the suite lesp riscotts, ret the required light brightness;
(b) Set the landing over working lights blind in a position for a might flight;
(c) ret in the invitation lights offsett basher and sale sure the marigation
(c) using the circumstation;
(d) using the circumstation light respectate, light up the ultraviolat large and

after checking the large for proper condition, close the light filters and set the large approximately in the operating position; (a) set the bendlight circuit breater and switch in the ELYMED (ELJIMO) position, sake sure the headlight is in a sound condition and the light beam is properly directed, set the headlight switch in the ELYMPID (FERSO) position and cut off the headlight circuit pressure; (f) cut in the subject circuit breakers;

(f) out in the shifts careful versus and adjust the fragilies of the sight ben to the registed waite;
(g) open the blinds on all warning lamps, make sure they are in a sound condi-tion and, then, close the blinds to obtain the desired light brightness;
(b) adjust the illustration of the instrument scales on the ratio compare cont-rol panel by retaining the ILLUSTRATION (SOUTHET) handle;
(d) check the condition and correctness of blind installation above the instru-ent panel for eliminating patches of light and reflection of instruments on the encopy plane.

(j) dissot the part citraviolet light on the flight instruments, and the star-board light - on the engine control instruments.

TOWING OF AIRCRAFT

55. The strength may be towed by a truck at a speed of 10 to 15 ms/m on a converte taxing strip and runsay, and 5 to 6 ms/m, on an unpered runsay. During the towing, the pilot (or the ground engineer) should remain in the cockpit and keep his hand on the brake lears to brake the stress, if necessary, 60. Aircraft towing at night should be performed with the navigation lights.

ENGINE GROUND STATES

O1. The engine is started either from an external power source or five an airoraft power supply.

62. Defore starting the engine, chock to see that:
(a) the fire-fighting seams are present searby the sizeraft;
(b) the wheel choise are placed under the aircraft wheels;
(c) the sizeraft bettery and gascentor are cut in;
(d) the external power supply is cut in (whom starting is performed from externel jower supply);
(e) the sight control handle as set in the FITID position;
(f) the etopocok is closed (the stopcock leave is set in the U7 (35271) position;

it on stepook is closed (the stopcock lever is set in the UF (SEFI) position;

(c) the GROUND - AIR (SOLIR - MOQUI) switch is set in the GROUND positions
(i.e. switched off).

6) Out in the circuit breaker of the AIN pyro borison and the LIM restaresible Grownspatio outpass and give the summed SERTH FRUS, and on rectiving
the prevalent continers have report FRUS REACHD, prepare the equipment or sarring
the mailtain the power plant coatrol instrument circuit breakers INSTITUS, STARTINSTITUTE (SALITAMENT, INTERCAL BROWN) and prepare the equipment for SERTH (SALITAMENT)
(while doing so, the red signal large will light up)

(b) out in the circuit breaker of the fuel bestier pump in so doing, the
starting pump red signal large will go cut, thus testifying to the pormal operation

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(e) out in the circuit treater of the fuel transfer jump which pumps fuel from the rear fiel task. With the pump operating projectly and fuel available in the tear, the green signal larg will light up and go cut imendiately.

5b. Marker searcing the engine cold life Citils and on preciving assurance that all is clear, start the engine; for this pumpose:

(a) pull the engine control lever all the my body;

(b) press the engine starting; yeal-alter for 1 - 2 seconds. On receiving the starting rather flast EURs from the ground enginess, with the engine running at a speed of starts of Nephs. Do the following, which the stopcool control lever to the starting (intermediate) position, it is satisful affects the engine has existed at expressions belong-ballowing, which the stopcool coursel lever (fig. the engine has greated about 600 rap.m.) to the fully oppoperation (impressing the intermediate position and in 1.5 - 2 seconds serve it to the starting (intermediate) positions. After the engine has reached a speed of 900 to 1200 r.p.m., remove the stop-ick control lever from the starting (intermediate) stop and shouthly shifting it is a size rate, put the lever in the fully open position within 1.5 - 2 seconds, cheridage the temperature of estimate games, which should not exceed 500° or e600°, sizes: 1. The starting of the following in the latest in the respective is below 100°.

The artisan air trajecture is below -10°C.

Stres 1. The storting of the engine tay involve surging which is mormally accordantly a cyclic Tailing Andrew .

Stress 1. The storting of the engine tay involve surging which is mormally accordantly a cyclic Tailing Andrew .

Stress 1. The storting of the engine of extract gat taggerature beyond the rate limits, out of the involves of extract gat taggerature beyond the rate limits, out of the involves of the engine stress to the enter the first tagger of the enter th

for the county than the suppose lever to the CIAND (SEEPAD) position, the months shift the lever to the CIAND (SEEPAD) position. If the summe county lever is pulled back indeedstelly, the engine county lever is pulled back indeedstelly, the engine county lever the pulled back indeedstelly, the engine when the lever is pulled been apply circuit absorbered is out in only stand the lever is pulled by the supply circuit absorbered is out in only the interest of the county lever pulled all the way-May, the engine which the trained and the lever to pulled by the county lever the county lever pulled in the stand of the county lever the temperature of east into said pipe about not send; then proceed to engine for it amount of the process of the standing county, first monthly bring the endine style in Medicine after the storing county, for the monthly bring the endine style in Medicine after the storing county, for the monthly bring the endine style in the standing county, for the monthly bring the endine style in the standing county, for the monthly bring the endine standing, top standing county downers expend to my county of the endine standing of the endine st

et. If during the engine starting, no ignition of fuel takes place, immedially also the stopech, wait a little until the turbine stops rotating, scarning (sold-start) the engine from the electric starter, with ignition cut off, legin the repeated starting in the angine only after the end of scavenging (after the turbine has once to a standatill).

FOLIE CROWN PERT

69. After starting the engine and gaining steady idle rating (2000 - 2600 r.p.m.), give a signal four disconnecting the startual power supply be easing the thank in the face level. Earing ands cartain that the rest of the start is the start buttery and generator insending cravitally bring the entire proceed to MADD r.p.m., asks cartain the generator formation properly the red signal lang CREMING OFF should go out as the engine gains a speed of 1200 to 1700 r.p.m. The operation of the aircraft generator can also be checked at a speed of 5000 to 0000 r.p.m. by the voltaceatar, with the aircraft bettary out off; the voltace value should be within 26.5 - 26.5 volts.

70. Check the dynamics of the isolating valve, for shich jumpose set the engine speed at 6500 - 7000 r.p.m. out in the isolating valve circuit breaker (the isolating valve sipnal lamp should light up) and determine the surface speed change as congrared atth the initial speed.

Operation limit of the major speed drop, with the isolating valve on, is 20 r.p.m. The engine speed growth is not limited.

If, with the isolating valve cut in, no change of angine speed has occurred, link the isolating valve cut in, to change of supple strong string beyond the speed limits of 5500 to 7500 r.p.m. Constant angine speed or the drop by more than 250 r.p.m., with the isolating valve cut in, testifies to the valve unservicesbillity.

Out off the isolatine valve, is a result, the series speed abould resume the

or off the isolating valve. is a result, the engine speed should resume the

Littel 1. Through with a cold engine is allowed to be performed only in case of an electric take-offer of the electric take-offer of the electric take-offer of the electric take-offer of the electric take of the elec

pusp box shows 1.5 kg/sl.cs.

72. Obet the senten speed with the senten control lever set on the intermediate relations. The section speed about he 11,350 + 50 r.p.s.

73. Obet the operation of the senten state-off rating, the rate of travel of the senten control lever, with the speed forcesed from the isolating wiles check rating to the traveller speed, equals 4 - 6 seconds. Fith the engine running at the swimms appead, cut in the isolating valves and check the value of the Speed charge, but the Labelting valve is cut in at the state-off rating, the engine speed charge by not more than 50 r.p.s. or the angine speed dry by not more than 50 r.p.s. or the angine speed only by not more than 50 r.p.s. or the single speed only by not more than 50 r.p.s. is allowed.

The resulting of the engine control instruments during engine grownd test at take-off rating are presented in Table 4.

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Remitted of Engine Control Instruments foring Dying Ground Test at Inte-Off Esting

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Parameters .	Instrument readings
Ingine spied, r.p.s.	11,560*10
Gas temperature, °C	Warinum 690
Fuel pressure before burners (reduced), kg/sq.om	45 . 4
Fuel pressure (as reed by pressure gauge), kg/sq.cm	Fot more than 75
011 pressure, kg/sq.on	1.4 to 3.5
Oil temperature, °C	From →0 to +90

Oil presence, \$2.94.00

78. Check the operation of the AFT-88 acceleration control unit from 5000 r.p.s.

19 to the auximus speed, for which purpose shift the engine control lever from the
position carreyonding to 5000 r.p.s. to the frontenst position within 1 - 2 seconds,
wait mail the engine starts running at a steady maximum rating, then, pull the engine control lever to the reamont position.

18th the acceleration control unit functioning normally, the engine should be
accelerated from 5000 r.p.s. to the maximum appead within 11 - 15 seconds and shorttime gas overtwornture should not exceed 770 0.

Short-time auximus overspeed caused by shrupt soverest of the engine control lever,
should not acceed 11,000 r.p.s.

75. In the course of the engine test run the pilot checks the cockpit pressurisation, for main's nurse be wills

(a) check the cockpit canegy;
(b) pressuring the eccipit by turning the gockpit pressuring valve to the
right in the COUNTY PRESURCEDT (AEDIA TENETITIEM) position (up to the bedinning
of the soluted panel bine section), while doing so, a slight clinking sound should
be break.

Positive running of the pressurining valve up to the next fixed position (at the
storial right wars air into the cockpit.

The cockpit tightness check is accomplished at engine take-off ratine, with the
pressurining valve open completely.

The pressure of make and off or hydraulic fluid smiletion in the cockpit is not
tolerated and indicates that the sanifolds in the regime section or in the cockpit

CERCE OF ARTI-G DEVICE MAK-I

To check the STX-I device with compressed air and the meximum G-load warranteers. To, to check the CLI-I device with compressed air and the merimum unions of a primum proceed as follows:

(a) comment the subset hose of the LLI-I device (by means of a detachable coupling) to the aircraft supply line;

(b) run the aircraft engine at 7000 to 8000 r.p.m.;

So, Bering soorthied that the egies, instrusted and creat specialist function reportly, the campy looks are properly ended (the ref eachbard on the local should align), and that the cought presumisation operator properly, but the SECRET/NO FOREIGN DISSEMbranes, cut in the ratio ret circuit breaken, establish contact with the

(a) set the AL-5 extending pressure controller and the CD-45 charge-over switch in the MERICHALVALL portions and, twon, in the SELVAN (ARCE,) position, press the automatic pressure controller procedution in each of the source positions and make sure (by the pressure contrast in the anti-1 suit) that the controller functions

EXPRINTED SYSTEM OF ENTIRE CHECK

77. Thile checking the enrine, set the engine gred at 5000 r.p.m. and sheek the operation of the hydraulic system. The presence restings of the hydraulic system gauge, with the value is a neutral position, should be 60 to 400 kg/sp.cm. This doming on, the time interval between the shifts of the presence relief valve smoold be minima 2,5 micutes.

within 7.5 situtes.

78. More the flap control handle from the neutral to the take-off position, and more keeping in the his position for 1 - 2 seconds, each it to the flaps-down position (rall down), the flaps should be fully extended within 2 - 3 seconds. The extended for the other states of flaps is checked by the light of the green signed lamp and by the complete posturation of the mechanical indicator on the post wing. Symbtomized extending of the right and lafet flaps is checked by the ground engineer.

79. To retract the flaps, shift the flap control handle to the flaps-up position (cull up) without felaving in the take-off and neutral positions. While doing significantly in the flap control handle to the safe that the flap special languageming or sail.

with the flap signal langualization of but.

If an the flap special langualization is over, set the flap control hands to the meatral position.

30. To check the operation of the speed brakes, cut in the charge-over switch on the accreation to the CPA (CTINTO) position and only certain, by the light of the signal langualization the speed invites are open, activate the spead brakes, mitting the change-over switch to the TUGIO (2017ATO) position. Check the "artifaction of the speed trained by presented the strength of the speed trained produced engineer's report.

At the time of the speed brakes retraction and extension, the presence in the spine may drop belief 50 Agragina.

On Cheek the operation of the CP-lattering control because. The pressure is agreed with the hydroxial because of the spines, with the hydroxial because and enoughly nove it full left and full right is extension. The control stick and enoughly nove it full left and full right of the results stick the increase and the spines with the high critical must are easily eithout binding of tests. The nove-shift off the creaming stick changes the pressure in the system within the 15 kg/squan listing the pressure returns to normal when the control stick somewhater stops.

Open and clear the alberth control because values two or three times. The value was open and clear cash yet without inteling a the raiserson control because of the control better of the surrous pressure relief value, with the control stick for frame, anyoness or accessive subscene stick forces. The time to return the breath of history of the three of the surrous pressure relief value, with the control stick in the neutral position and the alleres control because out in, should be minima at according

PROTESTICS FOR TAILING-CUT AND TAILING FANCINGS

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fight council officer and repeat circulance for taking out Slave the LIV. reaching growingstic compact to person restricting of the INPATON concerns the relating growingstic compact, to person restricting of the INPATON concerns and the first and expect the expectation of the Inland, and the LIV concerns the control that the council of the INPATON (GENTARING) as extend that the council of the INPATON (GENTARING) (GENTARING) are control state to the first and execution that the Window (GENTARING) (GENTARING) are control state to the left and excertain that the wind had on the personal action is returned.

As Even basing off first a limited where or with imp fuel tends, extend the lifest profit this will refuse the tender of my state the first profit the state and the Lifest profit this will refuse the tender of my state the first profit the state and the lifest profit the state and the lifest profit of the singled CHOW Anti (by awaing the hand) and that no obscules are always expected of the superary, check operation of the host briefs. For this profit, the interest profit is by thorough the residence with the hard) and that no obscules are always changed of the superary, check operation of the lower for the short of the profit is by the profit the residence with the hard and that no obscules are always absorbed in the state cut-of profit is an analysis of the state of the state

Enth variling over bood ground, accelerate the empine about to arrow the content of the several aircraft are tasting or darty similate, the lith account the financian of wind and the distance between the simplet to several partition of each content of wind and the distance between the simplet content of the financian of which the several wind is several with its extract content of the content

SO, SO settering the nursey, roll the currents 5 - 10 m wheat to elligh the conserved with the nursey, holisess the limiting sear control handle and cut in the land-control circuit breast off in setting seather conditions and at right, make nurse 20, before their off in setting seather conditions and at right, make nurse that the draw bridge and generator function properly and that the resi-tion of the 20th repute-resulting grangestic trapped are correct. SECRET/NO

90. Out in the aircraft transponder, AFR-5 surmantic radio compane, CFR-I orrange finier stiplt and the prior-status tube heater.
Poquest take-off clearance.

II. TAKS-OFF AND CLINAING

TATE-CTP

9). Look around and make mure there ere no obstacles about. 94. On obtaining clearence for take-off, perform take-off immediately to clear

ya, on occaning casesance for tearware, persons the-out imediately to clear the runwig.

\$5.00 ing the aircraft in place by application of brakes, increase engine seed, to 800 - 9000 r.p.s. and after ascertaining that the instruments read normally, release the brakes lever and start the take-cert run; in the invite of the take-off run increase the engine speed to station take-off; pear setting.

Or aircraft equipped with an intermediate residue on the engine control lever, as parform take-off at an engine speed of 11,500 at the same and differe in that the take-off procedure at tarces lanceased by 5 - 75.

Note. Then taking-off or shile in flight for interreding an actual tir tag-get, and also in other unforescent cases (take-off firs a short energy or actu-ground), the pilot is allowed to run the engine at a rating of 11,500 r.p.s.

Note. Them taking-off or shile in filths for intersection an actual air temperation of the processes cases (wive-off fire a short name) was considered, the pilot is elicited to begin taking off without bolding filths? Repair to make the state of which bolding filths? Repair to the process of the process of the state of without bolding filth and careful in place by application of brakes, and also imministely after entering the runsy so as next to too the necessary of the interest.

56. If the beginning of twe-off run, keep the control which is the partral position. If the aircraft tends to turn to either side, construct the tendency by explicit, meantary pressure to the brake lever. Fith the aircraft translational speed increasing, asimatin the take-off furnition of the control translation of the increasing animatin the take-off furnition is relieved to the statistic discretion by deflecting the reader.

In the process of the take-off furnitie sirrunt is stable to mainstain direction, without any tendency to turn. A creavatind of 90 and up to 10 wises velocity dies not 1 unitally affect directional control.

9. After the aircraft thas giand a speed of 100 ta/hr, smoothly apply back pressure to the control stick and rates the nose wheal off the runsay, keep the affects in this activities until unities. At a speed of 200 to 200 and the tendence control in the structure until unities. At a speed of 200 to 200 and the tendence control in the structure districts and situations of situations of the structure of the landing gear at an elittude of 10 to 15 s. During the runsay, here the landing gear at an elittude and situations of situations of the landing gear present intropletaly. The time moral hy required for retrease and the landing gear may return intropletaly. The time moral hy required for retrease of the landing gear any return timerpietaly. The time moral hy required for retrease the landing gear any return timerpietaly. The sum marking required for retrease the landing gear and the landing gear by the second

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39. If take-off was asie with figgs down, raise the flayer at an altitude of 500 m (after retracting the luning year). Do not recove the hand from the flay courted handle until retraction is completed; after this, set the flap control handle in the SYMTAL position. While retracting the flaps, the pilot has almost as contact.

TAIS-COT FROM DEPAYED AND SPON-COVERED RUNNATS

100.07 FROM CHAPTO AND SIGNATURE RUPLATS

100. The-off from unpared and some-covered runsays with an even and a worthciently firm surface does not differ such from that performed from courses runsays.

This taking off from unpared runsays having an unwern surface, the running
streads experience pitching and rolling, which cause beary vibration to the conroll stick. With the speed increasing, the vibration of the control world work of the pitch of the pitch increasing, the vibration of the control work of the pitch. The rolling and pitching of the directs during the take-off run sade it difticals for the pitch to determine the none wheal unstick, they-fore the tone wheal
thought be related assemble. Here, i.e. after the aircraft has resulted a speed of

100 - 500 ke/hr.

Longitudical and lateral reparation between the eigenst during formation takeaff from an unpared runny must be not less than 50 m.

To evoid aircraft county in the runsay at a distance of minimum 50 m.

CLIMPIES

101. After retracting the landing gear and flags, unlock the safety harmons, use the alreador and alicems this table to construct the control forces and continue to climb at a genile angle, simultaneously increasing the flying speed to statute the landser rate of climb eyed at an altitude of 1000 m.

Contion. In sireraft equipped with irreversible hydraulic boosters in the ele-vator and sileran countril system, do not use tria take in flight with the hydraulic boosters countril.

102. Perfore cliabing at engine toxinal rating (11,200 r.j.m.) and, whetever toxinate to speed up cliabing - at tale-off (combat) rating (13,500 r.j.m.).

Caution. Continuous operation of the emiles at talenoof (agree) retire any to allowed in obtaining continuous operation of the emiles of talenoof flagment retires and the emiles of talenoof the emiles of talenoof taleno

timens argine operation at nominal rating should not expert ; non30). To goth the maximum rate of climb, the pilet will perform of that higher by
saturating the true simples (as read by the thin pointer) equals to 720 kp/mp at a
saturating the indicated simple of several rating with the affilmode
stating, the indicated simple of several by the thick pointer) with the affilmode
30 - 25 ms/hr per each thousand of seves (7able 2).

* . . 1 . 2 Fertical Clish Speed and Indicated Airegeed F5 Plight Altitude and Olish Time (min)

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Flight altitude,	n = 11,550 r.p.a.						
	Optimum rate km/hs	of repid climb,	Vertical speed,	Climb time,			
	VIAS, barbr	Ytas. ha/hr					
1000	718	750	47.0	0.35			
2000	686	750	44.0	9.7			
3000	654	750	41-0	1.1			
4000	624	750	36.0~	1.5			
5000	594	750	35.0	.2.0			
⇔സ ¦	56A	750	32.0	2.5			
7000	536	750	2).0	3.0			
8000	509 .	750	26.0	3.6			
9000	491	750	23.0	4.3			
10,000	454	750	20.0	5.1			
11,000	427	750	17.0	6.0			
12,000	395	750	15.4	7-1			
13,600	366	750	9.7	8.6			
14,600	340	250	6.2	10.7			
15,000	320	750	2.6	14.6			

Solve 1. The citab time given in Table 2 has more allow for the time space breeded for take-off ran and acceleration of the allowed for take-off ran and acceleration of the allowed for take-off ran and acceleration of the allowed the space practice. It is not speed, but the engine ranning at 11,150 r.p.s., only for 11 allowed, from any relation to the space of the sp

111. 12V/1. /11187 PERSONAL SERVICE

No. The maximum permissible flying specie are:
(a) for altitudes below XXXX = 4000 km/hr IIS;
(b) for altitudes from XXXX to XXXX = 1200 km/hr IIS;

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(c) for altitudes above 7000 a the speeds of the aircraft are unlimited. Flying at taking speed does not affect aircraft controllability.

Not if for some researce the flying speed has became greater them the maximum perminents one, docrease withy extending the apoed brakes or a simultaneously changing the region to the file justice.

Speed brakes may the unit at all speeds and altitudes.

While extending or retracting the speed brakes, the control forces on the control stick do not change at all presidently filipt retings.

303. With the indicated dispeed, reduced down to 200 - 200 km/hr, the aircraft insens its estability and smills, with the landing gear and flaps retracted and with the angle running at idle reting.

The stimum numbered profest at all altitudes equals 300 km/hr 135. At this speed the aircraft is fairly stable and the controls are sufficiently effective.

Alle performing tractic pattern level flights for training purposes, the indicated aircraft about be 500 km/hr, with the landing gear retracted, and -50 km/hr, with the landing gear extracted.

ALLS RIDSTAINC POLECUE IN STRANGES CONTROL REGINATION OF LEGILIANTS

109. If the kgf-17 fighters have been delivered to silitary gnite-discoverhied, your a check flight and a flight at anxious permissible speed after assembling

Top. At the Ministry Lighters have been occivered to silitary gains-sime-exciting cuts on the fillight and a flight at actions premissible appeal after assembling the electronic of check fills and a flight, check the operation of cupies, remines for the electronic cuties of instrumence, flight control and marketing equipment, and other attends to the lateral and inspitutional behavior of the electrafic.

To thesk the lateral and inspitutional behavior of the electrafic to the object of the electronic country of the electronic country and the electronic co

In case the differtion of the control stick by 1/3 of its full travel fails to In case the deflection of the control state by 1/3 of its full trevel fails to check the tank, stop accelerating the servant. For which purpose on down the pine spend to the tells rating, sated the spend between the 30 - 50 km/h, arouthly amme abile attitude, stop families that attends the pinest developed the attended adjustment and preform leading.

The attended objective bending at an indicated spend of less that 10% sp/m, and requiring deflection of the country lead by more tean 1/3 of the full trevel to commitment the bending, will be not considered attention and are sufficient to further adjustment by the Manufacturer.

note: Building of positive Calcad at altitudes from the 500 a intensi-tive that the contract to stop lambiat, it is accommon first, of the contract as the contract as the contract to a contract and cutting from the only of the soft then, by send the armost into citab.

the angles (1,0.5, and, then, to seen the abstract and older-buring flights intended for its significant the adjunctor of the element of maximum permicrible speed rates, the pilot significant exceed the indirected attract of 1000 ha/hr and descend to an abstract of less than 500 s. The results of structure sign tests thick in flight will be entered by the pilot in the element Service log.

Counties. On aircraft equipped with increasable hydronic boosters in the elevator and tiler a control system to not use this take during fulgits, with the hydronic boottone engaged.

with the hydracial brothers received.

112. If the stabilizer is not properly, the elevator control ferces on the control stick, with the tris the bring survey, in filights at sixtudes from 2000 to 2000 s and at flying speeds from sixtudes absolutely and the stabilizer and the same one, change the stability and, therefore, there is no need to use the tris that even turing execution of filent naneuvers.

At altitudes up to 3000 m and at speeds close to restrem ones, it is advicable to believe the aircraft by using the elevator tris tab at an indicated strapped of 500 tacker.

At altitudes of 50, NO m, the july is advised to believe these forces the same of 10, NO m, the july is advised to believe the same of 10, NO m, the july is advised to believe these forces the same of 10, NO m, the july is advised to believe these forces the same of 10, NO m, the july is advised to be a local through the shear of 10, NO m, the july is advised to be a local through the shear of 10, NO m, the july is advised to be a local to the same of 10 tacket.

MITANDIAS OF ASSOCIATED SUCRETOR STOP HERETE STATES ASSOCIATED TO SUCRETOR AND ASSOCIATED STORES.

Interel Belegfter

Travel Bringing

113. To show the correctness of aircraft adjustment third courses sixual operation of aircraft at noximus permissible specis, classingage the hydroxide booties at an altitude of \$500 - 2000 a out as in indicated aircraft course for \$500 - 2000 ke/fm; and the third pointer of the appeal intitions).

Melanes the aircraft, if occessary, at the store speak by the temperature trial tab of the aircraft account of the country o

range.

Permissible deflection of the control stick for receining the back at maximum permissible spend is up to 1/0 of the full travel.

Rote. The sileron control force on the control ctick is, a straight and level flight (without backing) at all epocks and slittings, with the hydraulio

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borster engaged, should not exceed 3 - 5 kg. If the control force exceeds the above lines, acresses it by respectively deflecting the pround-adjustable trim tere on the traiting edge of the wing (but not on the atleren), when the atteract is on the country.

After carrying out the diver-initiasted lateral balancing, the position of un-tria tan is considered balanced and the tria tab position should be cheeved before each man fighth. The balanced position on the tria tab bould be written down in red paint on the tria tab sking the inscription should state the definction welfar in additionate. is attitudence.

Do not use the sarodynamic trim tab of the alleron when flying with the hydraulie bocstar engages.

Longitu'inel Belencing

144. Fith the sincreft flying at an altitude of 3000 to 4000 m at an indicated airroyaed of 400 - 500 km/hr (as read by the thick pointer of the instrument), discrete the sincreft the sincreft the changed to should be sincreft the changed to hand control. This done, speed up the sincreft (at engine nominal rating) unit, if necessary, the alerator sarrodynamic trin tab, to a true sirspend of 900 - 950 km/hr, at which the pressing force as the control stick should equal 5 - 7 kg.

Note. Exile certorains a flight on aircreft believing the control above.

Anch the pressing sorte on the tourned which the latest price plant should clear.

Sort. Evils performing a flight are sireraft believing the plant should clear
by keep in sind the student diagram showing the charge of the control

farms on the stipp depending on the true sirepend.

fare on the stic depending on the true alrayers.

Then, without using the trin tab, continue to accelerate the eigeraft and determine the true alrayed corresponding to the lowest point of the force were a speed curve, which should be approximately siths mound — 100 km/m.

Stop accelerating the already after asceptaining, by the shurply increasing pressing control forces, that the aircraft after asceptaining, by the shurply increasing pressing control forces, that the aircraft has peased the lowest point of the force various speed curve.

On raisang the according to the lowest point of the force versus speed from to the speed value corresponding to the lowest point of the force versus speed from the speed value of the sirvator win tab at the store true airspeed in a straight and level flight (eithert G-load), so that the force on the control ettak epitodinably equals afrox (email pressing control force of 2 - 1 kg is tolerated). Here that, the elevator sendynamic straight and the used. And accepts the elevator hydraulic bouster. Bith the above behavior of 450 - 300 km/hr position or the tria tab is contributed behaved and the tria tab position should be checked before each cart flat allowed allowed and the tria tab position abound the tria tab and the inacceptance of the tria tab should be put down in red paint on the tria tab sain the inacceptance about a state the deflection value in allienters.

[Section 1. If the hydraulic bogster fails or cuts off, use cay be note of the

a case can the inscription should state the deflection value in millimeture.

Moses 1. If the horself to booser fails or cuts over use may be under of the
accompanie triangle of decreasing the central results as the land of the
the proper parts from the control in the central results within
the proper parts from the central results with the property of the central results and the property of the central results and the include of the property of the central results and the property of the

With the clevator hydraulic booster opened and the triming effect secration set in the neutral position, the aircraft should belance (the control force on the stick should equal sero) in climbing from an altityre of 3505 to 600 m, with the expine running at nominal rating at an indicated airspeed of 600 2 50 km/ar.

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PROPER CONCROL DE PLICES

115. Table 3 provides the main angine ratings in flight.

Teble 3

Wain Straine Ratings in Flight

Eating	Engine speed, r.p.m.	Sas tempera- ture, C	Continuous operation at given rating, min
Take-off (combet) rating up to H = 10,000 m (in level flight)	11,560 +60	690	Not to ex-
Trac-off (combat) rating above H = 10,000 m (in level flight)	11,560 +60	690	Not to ex-
Take-off (contat) rating in climbing (at all altitudes)	11,560 -100	690	Fot to ex-
Normal rating	11,200 +60		Sot to ex-
ldle rating	See Fotes		Seze

Botes: 1. The speed talke corresponding to the position of the engine coursel ever on the Atle rating stop, it remains and depends on the altitude and flying the the engine running at 10,800 cp.a. and above, the oil pressure should be minimum 1.4 kg/s/.ca, but abould not sacced, 3.5 kg/sq.ca.

3. The cil temperature should be within 40 to 4900.

116. With the flight altitude increasing, the temperature of exhaust gases increases

too.

If the evenus gas temperature exceeds 600°C, decrease the engine speed to return the gas temperature within the permissible limits.

17. In flight, the engine control lawer may be advanced from tills to take-off (combot) results within 2 seconds.

Then carrying out any training exercise, do not allow sharp whitiple accesses of the engine control lawer.

170, This in flight, do not enced the engine speed of 11,350 + 50 r.p.m., except for cause of combot employment and correction of error in carrying out ascending exactives.

in sillinators.

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(a) clack the argine maximum speed at an altitude of 40.0 - 10.0 a and a maximum firing speed (chis check may be performed similataneously with the altitude high-great calling sheek). These these conditions the maximum engine speed should be wittin 11,460 to 11,600 r.p.s.

(b) at an altitude of 10,400 - 11,000 a set the indicated airspeed of 300 km/m, with the engine control lever in the rearmost position. Then, more the engine control lever to the frontest position within 1 - 2 seconds and wait until the engine runs related position within 1 - 2 seconds and wait until the engine runs related position within 1 - 2 seconds and wait until the engine runs related position related in the region summation of the runs runs of the engine and the stoody maximum speed of the engine should be writted \$1,400 to \$1,500 r.p.m.;

(c) at an altitude of 10,000 to 11,000 m set the maximum level flight epoch by anosethly seving the engine control lever, and there there exact maximum speed of the engine, which, with the \$1,700 set to 10,000 to 11,000 repeat the procedure indicated in from (b).

Periods: 1. Shed the charge the optimion of the acceleration contain unit, the Boot-time switch overgread to the standard of the first of the second to the

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10), preseposite at the High altitude the Mai-IP sinverte should be from with the succept presention.

The succept presention.

Presenting the exciption the ground before taxing out to the runway.

11, the the presentiation valve for feeding cold or host air into the corpit, deposing an exactly conducted for feeding cold or host air into the corpit, and on the temperature of the saltent air.

12). In a was seen, when fying a partitude of the 5000 a in standard cold air into the cookpit, is eithered to set the presentiation valve for feeding cold air into the cookpit as hittings above 500 a as well as in a cold season, or then beating clouds, the pilot a which the temperature of the cookpit and disming of the course cancer.

12). This flying at hittings above 500 a as well as in a cold season, or then beating clouds, the pilot air in order to swell entertain contribution of the coccept and disming of the course concept.

12). This flying at hittings contributed to set the feed value to the set (10 presents upon flight altitude cockpit presents is attentiable to the FR-200 course presents controlled.

13). The cocypit presents are cockpit presents at altitudes and presents differential force. Perceivables presents differential at altitudes above 5000 a, with the presential cockpit furnishing consult, is writed 200 to 200 Medical.

14) The Part of cockpit presents controller fails to operate nor willy and differential by turned the Medical contribute and alphanent hook) on the Medical contribute to the left.

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17. Should smoke or unusual small be detected in the presenting compit during the filight at an altitude of up to acc a, immediately unpresents the cook; it and cut in the velocity head ventilation.

If the filight is performed at an altitude of ACO a, descend to ACO a, since flying in an unpresentised cockpit will result in a negative present differential due to air neation, which increases with the increase of flying aped. The difference between the true altitude and the cockpit "altitude" (as read by the cockpit sitted-and-pressure differential gauge) anomate to 1000 at read by the cockpit sitted-and-pressure differential gauge) anomate to 1000 at read by the cockpit time for delivery of hot air. If canopy dimning is detected when desconding from a high electude, precedes a follows:

(a) check to see that the pressuring valve is set in a position corresponding to delivery of hot air into the occipit;

(b) when at an electude of 6000 to 7000 a, turn the knob on the FI-ZHS cockpit pressure controller all the say to the left.

If canopy disming interferes with lamine, increase segme speed up to nominal case for 3 - a aim at an electude of all mains 500 a. Fifth the speed increasing 550 - 600 km/lr, extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend speed increasing 550 - 100 km/lr extend speed thrikes to prevent speed increasing 550 - 100 km/lr extend s

USE CY OFFICER IN FLIGHT

130. Fly the aircraft only with the paracture oxygen apparatus connected to the aircraft oxygen apply system. For on the oxygen sask and out in exygen aughly on the pround. When Flying at allitudes above 8000 m, out off the air-dilupion switch and use pure oxygen.

Fronta ties arrange to account to flight, which the communities of extremely 191. Them using the extreme equipment in flight, which the communities of extremely the pressure gauge, and the extreme supply by the indicator. If extremely interest is less than 30 kg/sq.cm, descend to an eltitude, where no extremely extremely the supply remained.

the bottle is less than 30 kg/sq.cn, ormuna.

18 required.

18. In all cases of ingroper functioning of the mircraft argest apparatus, presentating of cockpit, or wish conducting an air bottle, cut in the seargency oxygen supply.

133. If the oxygen supply system fails to overste properly (the indirector are alther still or respond weakly), puls out the disconnactory. presentating of sockpit, as when condusting as air buffle, but in the seargemy organs supply.

133. If the sarges supply system fails to operate properly (the instrator bilable seamate are either still or respond wealty), puls out the disconnector pin, pees over to oxygen supply from the kil-35 parameter congen experture, and discontinue he high altitude flight.

134. On destorting soles or unusual small in the cockpits, elses the stredition switch to the oxygen synamics. Then flying shows 5000 s, descand to an hyteliable show 5000 s, unpreserving the occupits gradually and open the velocity head smallitten shutter.

135. Dut off oxygen supply and resolve the oxygen mask, after high-altitude flying, at an ellitude of sazinas 2000 s.

PLIGHT WITH DROP TARES

136. The aircraft is designed to carry two drop fuel tanks of 400-lit capacity

197. Take-off with Groy fuel tenks filled to capacity does not differ from that

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etune deep feel past, care, for the introduct to the of take-off or a besting of take-off or and introduction speel. Sofore taking-off, make sure the circulative on the important should provide the takengon the interprise NAMMS (EMBA), is easied on the important should (EMBA) to the twin serious 2x-ad, bearing the interprision records states (Introduct) Day, and (EMBANS E FFRS), one functions intermed should (Introduct) past, and the circulative tracker with the interprision ampoint NAM SHILLI, INTRODUCTO OF TWOS (INTRODUCT) EAS, GERO SHIE) on the displacement should report take and performed within the following sandam speed lighter

limits:

(a) from E = 0 to E = 4000 m - at an indirected airspeed of 900 km/km;

(b) from E = 600 m and above - at a true airspeed of 900 km/km.

Markets permissible had factor with fuel tacks filled to capacity is not 90 seried 4.5, and that with empty tanks - 6.5.

The behaviour of the aircreft in the above conditions is similar to that of the aircreft not corrying drop tanks.

155. Fuel convention from the drop tanks is checked by means of a varying lamp which lights up than feel is used up completely from the tanks.

Solvest 1 Top 4 means from the second properties the tanks.

type, rear contention "rea the drey tanks is checked by seams of a warmag was brief in such up complexity from the table.

Sings in the drey tark warming language light up show fuel in the dray task is such up complexity. And the should be survived by incomplexity, with the should remaining at a spend less time in the draw of the state o

elle appears to the man historia floating before landing, will increase with different to these the barry, incling floating before landing, will increase with limiting speed drop,

100. Forested landing with ras frep tank filled with field wild be said into the wind or with the treating tent being up the wind, spee glitting for landing wild than the filled tent filled with field to MM #200 MM/hm, the landing patters about he bestiend tental interface of the filled to capacity - minima 200 km/hm, the landing patters and the filled to capacity - minima 200 km/hm, the landing patters from the capacity of the filled to the filled on the filled only the the wind washed for pattern of the filled to the man which the wind washed from the most of wind in the filled to the case, naturals the glitting speed of not less than 250 km/hm, partons floating and tourners at a history speed than normals.

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144. Larding with one fuel tank filled to depacity, when a crosswind is blowing free the side of the juttlemost tank, is presibited,
145. Then saking approach for landing with one resaining fuel tank, perform
turns, if it is possible, to the side of the jettlemost tank at a barr not exceeding
80° 2

Stip. The count of first left in the revening tent can be experied as the pilot before seeing expense for landing of the invenience of the pilot before seeing expense for landing of the invenience of the straight of 150 keVing the search of country into average of the cast of straight of 150 keVing the search of country into a versacity of the search of the search

146. To jettleon drop tents, press the BERNICH ENG RULLER, STITISKIES OF THIS (AMMREM CROW ENG, CEPO EMICS) push-button. Fuel tents say also be drop-ped by cutting in the tentical relaise push-button on the control stitk, having first switched on the SONIC (EMIC) circuit bracker on the right-hand electric conrol panel. Thile foing so, the drop fuel tank warning lamps will light up. After the tanks are dropped, the warning lamps will go out. The drop of fuel tanks is

the tenh: are 'broyce', the warning large will go out. The drop of Te checked visually.

Fuel tanks are jettisoned at the following indicated airependan (a) untilsed tanks - From 350 to 900 km/km; (b) finned tanks - minimum 400 km/km.

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FIGURE FITS NOW IGAD

197. The NUT-17 sirrorfs sounts booking equipment which allows the suspension of two 70-, 100-, and 250-lig air books from book racks [4-50] and makes it possible to carry out dire, horisontal and toss (or loft) booking.

190. The take-off in the NuT-17 sirrorfs with suspended books does not differ from that performed without books. While in flight, the suspended six books do not have any coliterable effects on the behaviour and controllability of the sirrorfs.

199. The maximum perminenths speeds of the NuT-17 sirrorfs with suspended air books are set for conditions of zero withering, which begins:

(a) at mittudes less than 3000 s - at 870 km/hr 125;

(b) at an elittude of 5900 to 500 a = at 955 to 95 km/hr 725;

(c) at an elittude of 5900 to 500 a = at 955 to 95 km/hr 725;

(c) at an elittude of 5900 to 500 a = at 955 to 95 km/hr 725;

(d) at an elittude of 5900 to 500 a = at 955 to 95 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 55 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 55 km/hr 725;

(f) at an elittude of 5900 to 500 a = at 955 to 55 km/hr 725;

(f) at an elittude of 5900 to 500 a = at 955 to 55 km/hr 725;

(f) at an elittude of 5900 to 500 a = at 955 to 55 km/hr 725;

(g) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(h) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 955 to 550 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) at an elittude of 5900 to 500 a = at 950 km/hr 725;

(e) a

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- 23 -STORY PRINCE

193. Start the engine and tent the aircreaft at night in the tental eye.

193. Start the engine and tent out the aircreaft at night only for a short these way will extringuite pilot will extent no the tentiley light only for a short these way the tentiley light to the port of the order with a first tentiley lights. The port oltraviolet light should be directed to the filight and newigation instruments and the starbeard light to the engine common instruments.

15a. The take-off provedure as the seas as in the day-the. Ventain the direction of take-off run by referring to the highly points of the name. After breaky tion of take-off run by referring to the highly points of the name. After breaky contact with the ground, singlets, seame clinking entitudes.

15b. The procedure of Clying the aircraft at bright night does not differ confused the day of the procedure of the particle.

15b. The procedure of Clying the aircraft at bright night does not differ confused to the day of the particle of the billing of a night the hase leg turn will be executed in the sense are as as the daytime. The aircraft rill be recovered from the final turn at an altitude of 250 - you a.

15b. Judgment for leading at night is one-what more complicated than in the daytime, shows at night it is more difficult to determine the distance to the handing tent by the light reference points.

The judgment for leading of might be extended in the action it by floodingths.

75b. Leading at right on the numey lit by floodingths presents no particular difficultion of the light procedure.

15c. Indices at right on the numey lit by floodingths presents and particular difficultion in the farting procedure.

The signard is equipped with a leading light without ground floodingths, iteracts leading with a behing light is were complicated and requires special attention and high secures.

(b) and name are an altitude of 100 to 100 m;

PASSE AND ENGINEERS

161. To increase the range and enturance fly the aircraft at high altitudes (10,000 to 12,000 m).

(10,000 to 12,000 m). W2. To obtain a maximum range of flight, maintain the indicated airspeeds given in table 5 (speeds are equal for care of flying with drop tacks and without them).

163. Forfers climiting at a speel of the highest rate of plick.

Speeds and Plying Panges at Different Altitudes

light alvitude,	Indicated sir- speed correspon- ding to maxical range of flight, ha/hr	Possible stage distance till emptied texas (without drop tanks), km	Possible stage distance fill emptied tasks (with drop tasks, WC-lit ispe- city each), km
5000	500 - 6cc	765	-
10,000	A10 - 500	1185	1775 (without talk jetziecz- ing)
12,000	4CO - 46O	1295	2010 (without tank jetti- soning)
12,000	400 - 460	-	2150 (with tank jettison- ing)

164. Perform gliding with a retracted landing year and the engine control lawer set on the idle rating stop, at the following indicated direpeds (either eithout fore that or with them):

from an altitude of 12,000 down to 5,000 a, at 500 km/km IAS;
from an altitude of 19,000 down to 5,000 a, at 500 km/km IAS;
from an altitude of 500 down to 5,00 a, at 650 km/km IAS;
from an altitude of 500 down to 5,00 a, at 650 km/km IAS.
105. To obtain a maximum endumnous, carry out the flight at an indicated airspeed of 500 - 500 km/km at altitudes indicated in table 5.

20010 5.

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Speeds and Endurance at Different Altitories

Flight eltitude,	Indicated sireped corresponding to maximum endurance, km/hr	Flock time till erpticd tanks (without drop tanks), min	block time till empeled tenns (with drop times, suchlif especity each), min	
5000	300	85		
10,000	300	108	160	
12,000	300	114	173	•

Hote. Then calculating the range and endurance, allorance has been make for fuel consumption, with the engine running on the ground for 5 minutes. 166. After the fuel from the rear tank has been fully used up and the groen varings larp of the fuel transfer pash as franched up, out off the circuit breaker of the transfer pash (the purp sarring larp about go out) and continue the flight, checking the restainer of fuel by the fuel quantity gauge.

107. Face 300 littres of fuel resain in the front tank, the energancy fuel level red varning lamp will light up. If this is the case, discontinue the flight mission

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and lend the aircraft, since the amount of fuel laft will last for 10 - 15 since of flight with a speed of 500-550 km/hr at altitudes of $1000\ to\ 5000\ m.$

Note. Then filling the sireraft fuel tanks with fuel T-2 instead of T-1, the Flight range and entire me will decrease by Etc.

ARMANEST COTTECL PROCEDURE IN PLECE

76. Freques the directs sight for firing in the following on (a) cut in the FIGHT MATTER SPACES (SELFER SPACES) circuit breaker (b) switch on the SIGHT (MIZZE) circuit breaker; (c) cut in the HIMO-RAISE FIRER (FILER) decail breaker.

Cention. Do not out in the radio range finder until the sight circuit breaker has been switched on.

Existing. To not cut in the radio range finder until the eight circuit breaker has been esticated an.

169. Frior to firing, proceed as follows:

169. Frior to firing, proceed as follows:

169 at the sight characters are the lever in the 5780 (MrO) position;

(a) set the sight operation by essenting shallow turns; the acceptance of the level of the sight operation by essenting shallow turns; the acceptance of the level of the shall shift to the side operation by essential turns; (c) check and adjust the sight retails illusination.

170. It in the arracter circuit breaker and the owners gan, and charge the gaz, for which jurnes press the charge purb-buttons of the respective guns in two and the same for the second delay.

170. For realizers of aircraft respons for fifting is indicated by the red signal large location on the best entered response for fifting is indicated by the red signal large location on the sight scale.

171. Set to target best (wing span and overall discussions of air of ground larget) on the sight scale.

172. To fire the 4-71, siturate can press the unjust firing button, and for firing the first from all the game, press simultaneously the upper and its from push-buttons (provided the aircraft is equipped with two-button firing control.) to occlusions.

control).

17). Provided the aircraft in equipped with operation firing control, fire is control, and make the provided from the EP-2 and M-37 by one front plan-button. Theorem receiving to differ operate fire (from Size M-3) or H-37), gut off the respective circuit breaker.

ter.

74. Should any of the aircraft guns fail to fire, charge the imparative gus
result; the reflective courring push-button, then, continue to fire.

If This impossible to determine which of the port guns has failed, charge both

Rose. Then conducting salvo fire from eigeraft guns, the duration of fire turns abound to determined by gun 5-17.

Thrests about to determined by gun m-17.

175. After the ear of firing, charge the weepons, put the eafery guard on the opposition, secured on the control stack, out off the armacent circuit breaker and set the eight charge-pres lever in the FIELD position (thoreby living the Armacope).

EFFERORAL STATE AND A STATE AN

177. Sefore bombing in flight, do the following: (a) cut in the circuit breaker, wa well as the tectical and emergency air beab (a) cut in the current measur, so went us the mediate and emergency and want returned switch;
(b) throw back the bomb tections release push-button ears guard and press the

push bottom.

Bit the beah release push-button precede, take sure the fir beak have been released, for which purpose check if the saming leaps have gone cut. If this is the case, cut off the circuit breakurs of advertic beth armainst.

170. Deboold the teaching release electric circuit full to operate, three beak the active correct push-button and press the push-button.

179. Whenever necessary to immediately release air books over friendly terrifuse the easystony release push-button. In the latter case, the beak release circuit exitch about 90 cut off (the air books will be released at ELFZ).

IV. PLITTY MATERIALS

180. The Mai-I7 alternant is capable of performing all confidence and serobe accounter, and varified measurers (balf-rolls and divine), with the sirrest and the the half-rolls and diving at maximum level flight revise from a maltitude of 8000 at up to the series colling. This performing flight annexum, short-time sative following annual series of the performing flight annexum, short-time sative following annual series of the series

NOW as to the service colling. While performing fullipht mysels from an altitude of SCOO as up to the service colling. While performing fulliph namewers, short-times metative in-loads are allowed.

However flight in the NeT-17 attracts mounting a tank with an inverted flight valve and hydroulic pusy "Scotlepest CQ?", say he performed during not more than 15 seconds, provided the reachaster of rule in the feel tanks is alminas 550 litres. Ascending flight answerses should be performed at an engine speed of 13,550 rp.m. In the same.

50 rp.m. up to an elititude of 6000 m. The procedure of sacretion of these successes at an engine speed of 13,550 rp.m. in the same.

70 correct fealls, it is allowed the accelerate the engine up to 11,550 rp.m. in the process of executing of the above anomarcis.

131. To check the correct performance of flight securing (especially avecalous and in conditions on poor visibility of the natural hydrom), the pilot can make use of the All'st grow normal such makes it possible to:

(a) casotly determine the values of the control auritures the extering the flight;

(b) check the coordinated morements of the control auritures the extering the religion of the flight;

(c) determine the aircraft attitude in space relative to the natural horizon and recover the aircraft to level flight;

and recover the electric to level flight: (d) determine the errors (babts, ellipting, uncoordinated handling of controls), (1991ally when carrying out restrict flight manevers.

Note. Thile performing an oblique loop or opening the horizon line at a climiting or dividual mode in excess of 8", the spherical scale of the grown horizon notates through 125". As a result, at the store angles the 175-4 for horizon cannot be used to check the bank.

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(b) diving with the engine rounting at corbat rating when the sirrest is enter-ed into a dive free a half-roll at a maximal level fillot speed. 10. Solls recovering from vertical filight manewers (moss or ascending rolls), with the assume of fuel in the fast tanks being less not — 500 litres and bloads close to see (from 80.1 to -0.5) setting during more than 1 second, the fast spites of the sirrest does not ensure reliable supply of half to the engine. Therefore, while recovering the absorber from rectical fight newways, would also settle the control of the control

197 To properly perform the banked turn, set the specified speed before extensing the banked turn and, then, enter the anteners by applying coordinated pressure to the control strick and pedals, simultaneously increasing the engine speed up to the nations value.

Once the execution of the banked turn by the turn-and-slip, speed, and reterioristic incinearce.

Incover the attracts from the banked turn by coordinated necessar of the control strict and petals, simultaneously decreasing the engine speed so as to assume level rigger activate status changing the fifting speed.

188. The alternate is atable in the banked turn. In the process of the banked turn secution, considerable pulling forces (at a normal speed of believing, appear to the control attak.

193. There is an diffurence in execution of the right-hand and left-hand banked butters.

so the course state.

19). There is no difference in execution of the right-hand and left-hand course.

19a, Righ-altitude banked turns up to 30° can be executed at all speeds up to the state of the course of the

Indicated Airporets and Duration of Cottons Banked Para (65 to 70° tonk) at Different Altitudes

Denaina).			
raed to the Est-!	Altitude, m	Indicated aircrest, butr	Duration of banked turn, see
			CALLEG TUEB, See
be helf-roll or		• ,	
SECRET/NO EC	2000	470 - 500	32 - 35
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flying at altitudes shows 10,000 m, perform banked to

197. The procedure of execution of the figure eight is similar to that of the

197. The processes or executes at the layer ways to be other should be performed better term. The stange from one directions of behand turn to the other should be performed by continents and coordinated sorement of control still and pedals, with the periodical of the engine control layer being unaltered. While changing from one turn to the other, which the retroduction is altitude to see that the flight altitude to preparing animaged.

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GRECHE

Ted. Carry out the chandelle at combat or normal rating of aircraft angine with filter speeds as its ancess of the assistant permissible level filight speeds.

The harves entering the chandelle, accelerate the excise up to the maximum permissible revenue to the process of the assistant of the control string given speed and, then, by smoothly stripting beds pressure to the control strine is the process of the chandelle and by displants of the chandelle and by displants and stripting permissible permissible permissible permissible permissible and permissible and stripting as great algorithm permissible permissible permissible and the second through the chandelle.

After the attracts have the control harmonial sorting the control strick forward and into the reversal of the breat through two 1.70°, the bank and climb angles should be gradually decreased by similaraneously sorting the control strick forward and into the reversal of the control in such a way as to revoure the attracts from the chandelle into a level of the control in such a way as to revoure the attract for distring the norman of the control in such a way as to revoure the attract from the chandelle into a level of the stription brainly and as a spread of 150 lander.

200. Overcentrolling that the whick during the chandelle will revult in vitractic expresses critical layer of the attract which serves as a warning that the attract ends and any develop spin entry speed, if this is the case, stop the vibraction of the aircraft and search and control strick until the college of the attracts of depresses.

201. Entle performing the chandelle, with the aircraft and control strick until the politics of the aircraft and so 1000 as of altitude.

202. If the chandelle is to be performed within atmina length of time, irradictive of the sounted is to be performed within atmina length of time, irradictive of the sounted is an object to aircraft at 1000 at an another of the chandelle, when the aircraft are a speed of the chandelle, when the aircraft surfac

BAIL-ROLL

TOD. The billy roll can be parformed at all clutturies from 2000 to ta, "CO management on the sintuine, the main-roll entry speed (142) must use

- all clutaies from 2000 to 5000 to 150 backs;

- at allitudes from 2000 to 5000 to 150 backs;

- at allitudes from 2000 to 5000 to 150 backs;

- at allitudes from 20,000 to 15,000 a 150 to 500 backs;

- at allitudes from 20,000 to 15,000 a 150 to 500 backs;

- at allitudes from 20,000 to 15,000 a 150 to 150 backs;

- at allitudes from 15,000 to 15,000 a 150 to 150 backs;

- back situation from 15,000 to 15,000 a 150 to 150 backs;

- back situation from 15,000 to 15,000 a 150 to 150 backs;

- back situation from 15 backs;

- back situation files level;

- back situation for the allitude of filight, assume priching order of the allitude of filight, assume priching order of the tax situation for the situation filight situation filight situation for the situation of the desired filight for a state to the sealth-up partition which all reds into the desired filight for a state to the sealth-up partition which all reds into the the situation for the state of the situation of the sealth-up partition which all reds into the two backs.

- back situation for the centred situation for the control state at an interest from the situation of the situatio

Hitten's Los faring Labi-Eall, shen Mireralt Priess Sensive. Atthough Application of Speed Resign of Yapping Screeks and Australes

(IAS), ka or ing recore-Serry sittions, hetery spand loss of sitting dur-(713), in/he liq usiz-roll, m



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3000 5000 5000 5000 5000	350 350 450 500 550 600	1400 1500 1700 1900 - 2100 2300	540 600 650 700 750 800	5.0-6.9
8000 8000 8000 8000 8000 8000	350 400 450 500 550 600	2500-2400 2300-2500 2400-2600 2500-2700 2600-2500 2700-2910 2800-3000	600 650 700 753 600 850 900	4.5-6.5
0,000 0,000 0,000	, 300 350 400 450 500	2505-2700 2700-2900 2900-3100 3100-3300 3300-3500	600 640 660 720 760	4.0-5:0

est den the angle of dive he 25 to 30°, the sireraft experiences a elight with prion mileh increases with the decrease of the diving argle and flying areas. In prion mileh increases with the decrease of the diving argle and flying areas. In the lattur case, the forces expliced to the control stirk mould be gradually decreased for recovering the aircraft on the verge of withoution. If more energetic pull-out is required, the sireraft can be recovered from the latturell with constituenable withersion. Hen the pedals are in the neutral postition, the withering of the direct decrease not result in a scall.

The assistant append during the recovery from the half-roll thould not exceed the speed at which the aircraft enters the laif-roll. The loss of allitted during the half-roll amounts to 7000 - 3500 m.

(2) This entering the half-roll from an altitude of 0,000 a, enargetically some the control stick betward, the flying as in case of a half-roll entered from 5000 a, but the G-load does not exceed 3.0 to 3.5.

Liter aring the control stick betward, the flying speed decreases but it a swing the control stick betward, the flying speed decreases but it, a silver rate than in case of a half-roll entered from 5000 a, has the silveral approximate the varient section of the dive loncease the pulling forces on the sortion stick up to 20 - 25 kg, and the withration of the sincerase thanking its number when 1700 is silver with the dive vertical action to morease tracking its number when 1700 is silver with 1800 and 1800 an

Pear Original

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reserve to performed at positive amples of attack, and the other - at negative agrics of street) and the flut experiences varying G-load effects.

To perform the size reall, establish level flight condition at 600 km/hr lis, so-take 15 - 70° asset partitions and, after fixing this attitude, amouthly applying assets 15 - 70° asset partitions and, after fixing this attitude, amouthly applying the crumed size in the interior that crumed size in the interior that crumed size in the interior to the interior to

rell.

After the aircraft has reached the 270° point, gradually move the control stick
formed to prevent the aircraft from none-dropping.

Fin the aircraft nearing the level flight attitude, set the controls for reconfly act, ofter the aircraft has stopped rotating, set them neutral.

DOUBLE (EVISTPLE) BORIZOSTAL ROLL

215. louble (whitple) borizontal rulls are 6 combination of two (or more) rulls.

215. louble (whitple) borizontal rulls are 6 combination of two (or more) rulls.

(said-fir) interact any be used for carrying one both samp and slow controlled double cantiple) borizontal rulls. The speed at stich the sizeraft is brought into the double controlled and the sizeraft is brought into the double controlled and the first statistics about the at least 600 May for. The flying tenting is a size of performing multiple borizontal rulls is statist to that used then executing single rulls.

216. The loop is entired at a speed of 500 km/hr.

Morer entering the hop, set the sealphed speed and, then, apply back pressure to the control stitch to see clibbing stitlide, and, eithout releasing back pressure in the carried stick, keep the alternate on the curved trajectory in the varieties place as the carried stick, keep the alternate on the curved trajectory in the varieties place.

Pull the control stick are the carrier nearly constant rate of aircraft relation (secular valuety) and a speed of 500 to 350 km/h by the monget the circraft nearness that tending position. This executing the loop, cheek the aircraft back, since the laternate population of the stick are possible to the stick are possible speed from the stick carriers the horizon speed from the stick that population speed from the stilla frest the procedure of diving and recovery of the aircraft to level light's the search procedure of diving and recovery of the aircraft to level light's the search procedure of diving and recovery of the aircraft to level light's the search of the stitution of 4000 to aircraft to level light's the search of the stitution of 4000 to the stitution of 7000 as with the speed at the normal loop any be performed from an Aircraft still performing a loop at this high the population of the loop being speed and the sorresset of the control stick during the first half of the loop being speed or too being, the aircraft may lose the speed 30 – 400 before

resulting the top of the loop. In these cases, the joint of all a count, lies outh, the countle edick until the elements drops its more sell static disting from such the eights mysed only after the almost has dropped (became through 20 - 30° below the outhson. Ites the priels strictly neutral.

50X1-HUM

GREAT LOOP

279. If before entering the normal loop like pilot establishes to to of back relative to the horizon and performs the loop, scrivining the established tank throughout the moneyear, the mirrent will describe a closed corve in a plane isolited to the horizon. This massever is onlied the oblique loop.

270. The procedure of execution of the oblique loop is mainly the same as that of the moral loop, though during the execution of the forcer the pilot must be particularly securate with the controls and maintain the established bank throughout the

20. The processure we have the same that the force the pliot has to the same loop, though during the execution of the force the pliot has to the shifts loop.

It must be taken into consideration that the name probles consists in maintaining the stablished bank when the alread's approaches the loop top and, expecially, when the latter to being passed, With the sirrad's in the sheels—up position, when the heitful idea of ground and bortion is reversed, the pliot should be solt to determine and saintain the bank of the increast relative to the constant borison line and, consequently, at the top of the loop the port wing of the aircreaf though free latter to the horizon during the left—hand bank (when the chilique loop we entered with the last bank), will the started wing should be raised.

After the aircraft has assued diving stitute, press the point to the side opposite to the bank to restain the direction of flight during recovery. Then returning the direction the strip is using recovery. Then returning the direction is the side of the points, set thes neutral, Puring execution of the scotal half of the oblique loop, do not lest the aircraft rate round its overali-drift using, especially in the direction of the bank increase, since this say result in the discraft changing into the tight spiral.

221. During the initial execution of the chilique loop, the latter must be entared with a bank not exceeding 20°. The allitudes and s, reds of the othique loop entry are similar to those of normal loop entry.

If the pilot is not fourfaint of correct according of the future and perform the same send half of the screal loop.

LOOP AND FOLL—OFT

LOOP AND FOLL—OFT

LOOP AND FOLL—OFT

222. Enter the loop and roll-off at a speed of 700 km/hr. We procedure of the son the loop and roll-off first half is the same as that of the first baif in

loop.

With the circust in the whesterup position at the top of the loop and red
(the flying speed should be 300 - 300 km/ms), once the six-result through 500°s
its fore-and-aft with (thereby performing the balf-rell, for which purpose all
meoully apply the countral stick and posit into the desired redlathe rate and sociant of coursel stick sovesent should be such as to turn of
creft within 2 - 1 seconds.

The rate and assumt of control stick soverent should be such as to turn the court within 2 - J seconds.

After the aircraft has resched the 90° point of the turn round the fore-and-six attention aircraft be trained at the such the southst forward to said some the control stick into the roll and at the such the southst forward to said that directional control and decrease the angle of attack to prevent lose of special stick that the south the six-rate and the six-rate returns to level flight, stop the rotation of the six-rate, After the rotation of the six-rate has stoped, decalarate the socials.



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23). It its speed is less than NO tachr, when the stronger is in the master up position, the plan must perfore the mornal loop. In this case he should not so tent to execute the loop and roll-off as the shorter tany develop spin don the performed the second of the speed at lee speed.

24. Than the loop and roll-off is performed from an altitude of 5000 s, the shorter tents as sittled of 2000 - 2000 s.

25. For twenting purposes the initial fillings for execution of the loop and roll-off such that the second of the loop and roll-off is entered at a speed exceeding 700 km/hr, the plane must be pressure to the goaterol stick at the beginning of the masserers sater 30 km/hr.

27. The soos abould be entered at a speed not according the maximum level flight speed at the given altitude,
The soos can be performed at various angles of olimb including vertical clip-

The print recovers the aircraft from the soon by performing the turn, to recover, the sincraft, establish a back and, then, by syphying coordinated pressure to the coursel stick and point sets the turn assuming Dosebarry attitudes. The aircraft, as he had turn, the soon recovery speed about the viniting AGO - 450 km/hr if the aircraft collaborate to 50°, and 35° to 400 km/hr if the angles of oligh are less thin to 20°, the airtrade gain in the soon depends on the speed, angle of oligh and soon entry altitude.

HANDERHELD STALL

PROCECTED STAIL

200. The size is entered at a speed not agreeding the maximum level flight put
at the given shittee.

To perfect the thannessheed stail, suply back pressure to the control stick, set
the sixerest to child at an angle of 60 - 70 to the horizon and maintain this sun
to suit in the perfect corrected from to 450 keVer. White amount, apply smooth or
said pressure to the perfect and control sick, estbors changing the angle of child
to the control stick of establish a back into the turn and at the same time spity profit
to the control stick to establish a back into the turn. The back should not sure

With the acceptant of pecial increasing, deflect the control which slightly had to keep the adversary in the place of hurs. Here the circumst mose has dropped the horizon, decrease the eight, planning to obtain the allower entire speed by the accept the airport starts divide. The airports was notified that an applie speal by the accie of class.

Pall out the strength at a press of Acco Navier.

Allowing here from the top of the hearented stall to the moment the sirengle securing to level flight, waves up 700 to 500 ms.

autha retentioned are retrieved for the east officer

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VERTICAL POTENTIAL

Decision and waintain this still because and against this still because and waintain this still because and waintain this still because and waintain this still this amount, apply according to change of click the amount, apply according to the appeal at which the sireract enters the vertical reversement any be from the still be amount, apply according to the speed at which the sireract enters the vertical reversement and be from the still be antered the analysis of the still be antered the analysis of the control still alightly be suffered to each a dropped in the control still alightly be suffered to each and the still be brought this still be antered the still be antered this section of the still be appealed as the still be according to the still be appealed to be the still be according to the still be appealed as present to the control still, peach the atternate time climb the action of still be according to the still be according to the



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provided the horizon, decelerate the engine r.p.m. to the minimum once, send the aircraft into dire by applying back pressure to the control stick, and, then, return the circraft to level flight.

If the soon is entered at a speed close to the maximum permissible one, and the majle of climb excels 60 - 50°, the pilot abould start 100° turn of the mirreaft round its form-act aft and at a speed of 550 to 500 km/hr and assume the cheels—up penting planning to obtain a speed of the less than 300 km/hr at the top, of the wortical reversement, when the aircraft nose is level with the horizon line.

540° ESTEPTING BOLL

233. The 500° ascending roll is a combination of an ascending single roll with ill-rell performed for the subsequent inverted flight or for scading the aircraft

into a dive.

In

If, with the sixtreft in the wheels-up position, the flying speed exceeds 300 cm/m, slow down the rate of control stick backward movement, decrease the engine event and extend the speed brakes.

MAINTAINTS WECKSDING BOIL.

Filtres ACCEDING ROLL.

214. Efficiple ascending rolls may be performed at climbing angles from 30 to 60° and at flying speeds up to the maximum permissible one. The larger the climbing angles, the hicher should be the roll entry speed. The uninum roll entry speed should be not less than 700 im/hr. while the recovery speed must be sinkern 400 km/hr. The possibility of smilliple assenting rolls consists in the fact that, with the increase of the smills of climb and, consequently, of the roll entry speed, the accounts of the rollins should be less than in performing short for the transport of the sould be less than in performing short of the section of rolling in the rolling in the process of performing each of the section of rolling in the content angle of climbing in the process of performing the for the section of rolling to position, and more it back with revening the stricted from the roll. After executing a series of seconding rolls, send the aircraft into a turn, banked turn, balk-roll, etc., depending on the recovery speed.

TERCICAL PIGURE OF FIGHT

FERTICAL FIGURE OF EIGHT

235. The restricted figure of eight is a combination of two loops combined by
secondary and descending 150° atheros mile.

Exist associate the vertical figure of eight, with the aircraft rolling round
the fore-ad-ord sails in the seconding autoritor, the speed at which the interest is
brought into each loop should be 50 bm/hr higher than the speed prescribed for
ECREFI/NO FO

assuming a normal loop, while the efferom roll about the performed at the end of the first quarter of each loop, i.e., when the aircraft is at a climbing angle of a) to 90°.

a) to 90°.

Then performing a vertical figure of eight, with the character rolling is the descinding superven, the speed at which the eight at its brought into each loop abraid be sormed, while the atleron roll must be executed at the end of the third quarter of each loop, i.e., when the aircraft is descending at a close-to-vertical diving angle.

BALF-INCP AND BOLL

236. To perform the half-loop and rell, set an eirepeed of 750 bm/hr and seed the sirrest's into a climb as in executing the normal half-loop.

As the sirrest noise nears the top of the half-loop (75 to 20° ascet of the horizon), then the speed and, with the indicated airspeed of ninima soo bm/hr, rell the sirrest's in the centred direction by coordinated screening of the texturel stick and penal. After executing the half-loop, perform a herizontal rell without changing the position of the controls. If, at this top of the half-loop, the speed is less than 600 km/hr, do not perform the rell but and the measurer in normal half-loop.

ASCENDING POURLE CHANDALIE

237. The ascending double chandled is a combination of the first half of a chandelle with the according half-roll performed in the same direction, and the second half of the chandelle performed in the opposite direction.

The storement may be brought into a couble exceeding chandelle at all altitudes and flying speeds up to the hariant permissible one.

Accolorate the aircraft at the given altitude to the required speed and sand it into an excending spiral, with an initial bank of 10°, by coordinated sovement of the

into an escenting spiral, with an initial bank of 10°, by conclusived expenses to the controls.

At the moment the aircraft has turned through 30° from the direction of the Supermar matry, stop the angular rotation of the sirraria virtuous changing the single of clieb and, applying coordinated coverant of the control stick and polels, perform a controlled 150° roll into the back.

As soon as the aircraft reaches the opposite 30 to 60° bank, stop the aircraft reliding and continue the seconding turn up to 90° in the new direction. The precovery rolling and continue the second helf of the aircraft changes of the aircraft frast the second helf of the aircraft should be should be finished at a speed of minima 150 km/hr.

2)8. Due to considerable loss of eletitude and rapid increase of speed when pulling the sireraft out of the dive, maintain the following dive angles at altitudes above 2000 ms

(a) then the engine is running at minimum speed, with the speed braves applied -

(b) with the engine running at minimum speak, without applying the upsed brakes -

ope combined by

(c) with the angine running at increased speed (up to the name) rating) with

out applying the agend brakes - up to 50°.

239. Their the diver from Altitudes minims 2000 a with the engine running at the

status excel and dive angles not accessing 45°.

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A41. The five may be emiral from turn, believed or streight flight. The lient straints line and agend growth during the entry will be obtained when the dire is entered from turn.

No not entire the dire from a half-roll at attitudes less than 3000 m.
C41. There the dire at an indicated alrepted of 350 haybre.
241. Then flying at allitudes above 5000 m, the almost may be brought into the structure of the strength of the strength of the strength of the structure of 5000 m, the almost may be brought into the strength of the

(b) at altitudes above 2000 m - at all level flight speeds up to the maximum

324. When diving, check the mirrored at altitudes above 5,000 m by the altitude indicator readings, and at altitudes less than 5,000 m - also by the speed indicator readings.

244. Then diving, check the sirryeed at altitudes above 5.00 m by the standination of the control of the contro

basis (0) effect of aircraft basis; (when the aircraft rotates in the direction on the colors are also as a superior of applying considerable pressure to the control stick to build up the colors are sorption to express entrance of the analysis can ask as use of allowing the colors are sorption to the store of the allowing the allowing the area of authorized above 11,000 m, in case of sudden unpressurities at the colority of faithful above 11,000 m, in case of sudden unpressurities at allowing to describe of the entries at an admitted of above 11,000 m, in this storing at a colories to according time. It is allowed to describe a the allowing the described time. The colories to describe a store the according time with the sufficient colories are described. Its according time with the sufficient and bring the aircraft into the direct an angle of the color.

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(b) shift the engine common letter to los speeds

(b) sairs the engine common latter to los typical.
(c) on reaching the (steen diversible, keep it constant).
(d) after gaining an altitude of 13,000 - 30,000 s, smoothly save the state attack backward to pull the attracts cut without allesting it to make the statematical registed to the control state during the pullout, any reach considerable values, the eart, the aircraft pulls out reliably.

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VERTICAL DIVER

252. Fertical dives both with the speed brakes used and without them are ellowed from altitudes of 12,000 m and above at all speeds up to the maximum level flight

22. Fertical stress both with the speed bribes used and without then are allies of free altitudes of 12,000 a and above at all speeds up to the maxima level flight speed. Thing the aircraft into the vertical dive at the sexums level flight speed by preferring the hair-roll, Shile rolling the aircraft over to the whell-up position, pull the engine coarrol lever all the way hank, the behaviour of the direction, were typroching the vertical section of the dive is the same as in performing hair-rolls. 233. To keep the aircraft in the vertical dive, sow the control stick foreward, checking the position of the aircraft by the borion or by ground reference points. 254. The efforts required for helding the circraft in vertical dive, with the speed for the aircraft at an elective increase with the increase of diving speed. From the dive is entered at maxima level flight speed at an altitude of 4a,000 a, the speed of the aircraft as an elective of about 1,000 m reaches its anxiety while of 1.00 to 1250 km/km (se read by the thin pointer of the speed indicator), with the pressing forces on the control stick, the pilot is mable to keep the aircraft in the variant direction spite of the large pressing forces on the control stick, the aircraft grades on the control stick, the pilot is mable to keep the aircraft in the variant direction forces on the large pressing forces on the control stick, the case the streng angle down to 70 - 70° before it seathers an altitude of 5000 a said reduces the speed to 1100 km/km (as read by the thin pointer).

255. Start the variant live recovery, with the speed branc applied, et an altitude of 5000 m (se rend by the aircraft process the strength of the surface of the strength strength strength and altitude of 5000 m (se rend by the aircraft process the strength of the surface of the strength strength strength respectively strength as a strength of the surface of the strength of the surface of the surfac



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Instruct as the time straperts on the certical section of the distract land, and in the present level flight speed, on the speed creates returned (and all the more with the speed brains extended) on the speed creates returned (and all the more with the speed brains extended, on a smooth the professition preds specified for the alternate, the pilot may not seen the speed indicator by a specifical for the alternate, the pilot may not seen the speed indicator by a specific product of the vertical divergent own of the results of the pred brains also at an altitude of modes than 1000 m (as read by a situation). The control stick forces required for pulling out the advances has also as a situate of not less than 1000 m (as read by a to 25 kg. The advanced paids of the situation of the first situation of the stranged brains and the control sands as an abilitude of land 1000 m, but the strength braight into the dive at speeds close to the sating level flight speed.

So without one any other phenomena interfering with aircraft piloting are the stranged in these cases.

The afforts to be applied for recovering the aircraft from the vertical divergences.

The afforts to be applied for the beginning of the sating, are considerably decreased.

At the uni of the pullocs, the strap has a second to the carrier.

creased. At the such of the pullost, the pilot has to zero the electraft from chicing to larger angles of stack and from withration by pressing the control stick.

POWER DIVE SITE EMPISE MENSION AT COMPAR SATING

PARE DITE ITS HOUST ENESS AT CHEAT MATING

105. Four dire with the engine Pouning at centur retime, without applying it speek branca, when the sixtuate is brought into the dire force a straight and level fright up to performed at any (Main speeks up to the sandam level flight speek in the start of the property of the sandam level flight speeks up to the sandam level flight speek in the flight speeks up to the sandam level flight speek in flight speeks up to the sandam level flight speeks in the flight speeks up to the sandam level flight, the speek in the sandam flight level speek, decreases and, with the live of the sandam at the sandam level flight, the plicit say as the sandam flight level speek, decreases and, with the live of the sandam to the sandam level flight, the plicit say not which he salvant's trought into the dire from a level increase. It has allowed the sandam contains the time attracted the sandam level flight, the plicit say not which he dire after sandam speek increases from the dive. The efforts to be said allowed gains the sandam precipitation flights should be said the sandam level like the days at a sanda of a 3 - 50° from a level said start of up to 5 - 20° fg to the speek, recreatefully push the control said the sature should be said to the said as a series causing large freeze on the control said the said the said as a series causing large freeze on the control said the said the said as a series causing large the said to the said as a series causing large the said to the said the said to the said the said to t

15t. Do not apply the elevator tris tab in the dive. The change of elevator tris tab position in the power dire with the engine running at caches resting "see not have any considerable effect on the behaviour of the aircraft. The efforts to be applied for keeping the aircraft in the dive attitude repidly increase in both extracting the sport of tab.

262. The waying location of the aircraft C.G. during power lives with the engine running at combat rating does not crass any constituently engine in the tabletion of the aircraft.

The forces to be applied for keeping the aircraft in the power dives, with the engine running at combat rating, rapidly increase with the increase of the flying speed at any location of aircraft C.G.

The speeds gained during the dive, at equal values of control stick pressing forces, on an aircraft with a forward C.G. location are higher than on an aircraft with a rear C.G. location, with the extracts froward C.G. position corresponding to 20.58 EMG, the speed developed at an altitude G.G. position corresponding to 20.58 EMG, the speed developed at an altitude G.G. position corresponding to 20.58 EMG, the speed developed at an altitude of 10.000 s, with the forcer applied to the outputs leick equal to 20.39 EMG, does not screed 1200 hm/hr, and that at an altitude of 50.000 km/hr (as read by the value of public forces on the control stick are up to 25.—20 kg. The recovery of the aircraft does not result in any considerable G-loads due to warresing of sizeraft controllability.

The forces required for building up a load of on 0, when recovering the aircraft forces have the dive, sharply increase with the increase of flying speed and reach about 50 kg per G-unit at an altitude of 10,000 a and a speed of 1100 to 120 hm/hr (as read by the thin pointer), this senses that the changes of control stick force from pressing (55 kg) to polling (25 kg), with the sizeraft posite force from pressing (55 kg) to polling (25 kg), with the sizeraft posite force from pressing (55 kg) to polling (25 kg), wi

The ENT-IT sincreft does not have any reverse only state. The speed indicator and the radae.

Set that the sincreft developed at the above situations does not exceed the indicator and see that the sincreft developed at the above situation does not exceed the indicator attracted of 1000 souths (as read by the thick pointer of the indicator), since in some paper of 1000 souths (as read by the thick pointer of the indicator), since in some paper of 1000 souths (as read to 1000 souths of 1000 souths of 1000 south the paper of 1000 south the true to flight situate and make up 5 tone to gift an situate of 500 - 5000 south the true to in the neutral position.

At an situation of about 5000 m the beating of the pulling out aircraft, with the positive G-load present, begins at an indicated simpled of 500 to 500 km/hr.



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. In rectilinear divine, the aircraft backing develope gradually and say is to-some by the atlerone, and the flying speed may be increased by 40-30 backs been the ailserne love their afficiency which involves full or partial deflection of ma-alierons.

To stop beaking in rectilinear diving, as well as in the level flight, decin-rate the engine and extend the speed brakes, and only them stars recovering the abstract from the dive.

266. The spiral is normally performed with a 95° bank at a speed of 500 km/s, with the engine running as the minimum speed.

Micros entacing the spiral, assume splitting stitude at a speed of 450 - 500 km/s, which is a start the spiral with a bank of not more than 85° by coordinated accessor of the control stitude spiral with a bank of not more than 85° by coordinated accessor of the control stitude spiral spira

200. Fifth the landing pair and flags extended, the spiral is performed at in-209. Fifth the landing pair and flags extended, the spiral is performed at in-200. The attract is recovered from the spiral by coordinated extraoration to control state and pedal, similarmously increasing the speed while recovering to a large flight. The engire speed may be increased also after spiral recovery, during diding.

271. Bills recovering from a tight spiral, with the aircraft fore-sud-act and localized to the horizon at an angle exceeding 30°, first, remove the bank and, then, remover the aircraft from the dive.

FILE STATE AND ENTERED STATE AND ADDRESS OF THE STATE ADDRES

ly defineds.

To Proper the sireral from the alig, remove the bank by the control enter and release the rotal in properties with the value of the cask decrease, then, establish, properties of the cask decrease, then, establish, properties that the landing cast and flags retracted, elip is normally performed as a collected size, and of NO make.

I-BIG TERS R-IFFA BE STREET OFFICE

275. Curry out training flights with the TE-1 enth-2 suit on in accordance with training exercises intended for meat-ring individual flying technique and eincontaits.

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Control out the first flight in the anti-6 suit for determining G-tolerance at low (minimas) or high (surface) presence, there exist to be inlitted specific features of the pilot's organism, one and the same G-load on the easier tolerance by one part of flying personnel at low pressure, and by the other part - at high

mild up 6-load not excepting 3 - 4 during the first flights and impresse it during the next flights to 6 - 7.5 by performing conflicate and sarobatic maneuver

Build up G-load not exceeding 3 - a during the first flights and increase it during the next flights to 6 - 7.5 by performing confidence and accounts name are increased aspects.

Do not build up G-load exceeding 3, since it may lead to residual stream in the sincerfs tenturers. The higher the flight plutule, the lenser the G-loads which any be strained. Thus, due to the accounting proporties of the sincerfs, it is impossible to gain G-load equal to 8 at allitudes down 50.00 a. The anatum G-load (8 6) can be obtained at allitudes down to 50.00 a. The anatum G-load instabled in the signed, the anatum perminable d-load one to descrained by the red varing lamp located to the left of the sight If the varying lamp, lowever, can light up within certain G-load likes owing to incourate operation of the Lift percents central ently and G-load pre-cure varing units. It is worth soling, lowever, that on the Un-17 aircrars, which is not squipped with a hydraulia beater in the decays occurred system a G-load for dashow is practically impossible, when the sinvast G.G. location is properly adheated use to the large forces exiting on the control system a G-load of all above is practically impossible, when the sinvast G.G. location is properly adheated as the to the large forces exiting on the control such as the large amount of all and to the large interesting to the control such as the large amount of all and included, that a considerable G-load has been reached.

Most producing the interpret from the size, with the engine running at a speed less than 8000 r.p.m., the pressure in the segme compressor may be found less than food r.p.m., the pressure in the size compressor may be found less than food r.p.m., the pressure in the size compressor may be found less than food r.p.m., the pressure in the size compressor may be found less than food r.p.m., the pressure in the size of the dirty, the prior produced in the size of th



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T. 513

Zet. for coful sixuadt spins instructly only in thiss cases who the pix instructs limiters in flight technique.

The spin performed in the direction of the aircraft rotation is atable, as in a same of rotation, spins say be replier and irregular.

If correct recovery procedure is based, the aircraft will be recovered from the pixuadth of the correct recovery procedure.

ATROPART MEATING AS REMOVED FILLS SHIPS ON SPIR CREASUREMENTS

Figure String for some tian case and a half turns.

Figure Mainton at Minister Fillis Spring and Spring Characteristics

Figure Mainton at Minister Fillis Spring and Spring Characteristics

(7). Even the Attendant losse stability, the minister values of indicated drops

(a) with the latting gar and flags retreated - 200 to 200 km/hr;

(a) with the latting gar and flags retreated - 200 to 200 km/hr;

Even String at minister eather flags are readed - 700 to 100 km/hr;

Figure String at minister eather string at the latting general dispersation of the string at minister eather 100 to 100 km/hr;

Figure String at minister eather 100 to 200 km/hr;

Figure String at minister eather 100 to 200 km/hr;

Figure String at minister eather of flying speed to being decreased by gradually sold to 100 km/hr;

And House the accurate first the petalls in the postule at restrict (or as string), when the voltage shafted to 100 km/hr; which in the control string for the petalls in the postule of a string of a string for the petalls in the string of a string. Any result in a surface with the control string of a distring of a string of the string of a string of the str

If the electric.

With the professor folly present and control estate noved all the way book, the air cash, statis in the direction of the pierand sould not enter the spin less energy that in the way to be limited four and flags are retracted.

The sment the mirrorat enters the spin is indicative by considerable vibra-tus in siteriorical (local (jerke) on the control sites and points. The Newtontrolling with the sitet during the banked turn, candelle and loop is acquired by considerable wibration which warms the prior well in advance about

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the casing piles. It can be seen that the case of the

such is sowed all the way back, the sirrain during the perforance of flight maneur city present periods.

cl). In all cases of aircraft withration during the perforance of flight maneur city periods are control stick or push it exightly until withration discontinues.

28. While breaking inno the opin, the deflection of milrons into the wind city as left-band spin, the control stick is assisted to the left) or against the spi (with a left-band spin, the nontrol stick is shifted to the right) does not have any custiferable effect on the nature of stable.

AIRCRAFT RELAVIOUR IN SFIR

ARREST EXECUTE IN SPIN

265. The behaviour of the Wal-Paircraft in the spin, with the controls relly
deflected into the spin (with the sitterns in the secural political, slightly differs from that of other (numrept wing) fighters and its samics to also behaviour of
the FTM Wal-IS aircraft in spin.

The spin of the wal-PJ sincraft is stable in the direction of rotation without
spontaneous charge of rotation direction in the process of the spin.

The epident of the aircraft both in the left-hand milit or in-lith-hand spin,
the rotation of the aircraft both in the left-hand milit or in-lith-hand spin,
stiten, is, one a rule, irregular. In size cases, restly in the spit-hand spin,
rotation case be regular.

The controls rully deflected into the spin and the aircraft spin spin shade in the
rotation case be regular.

The lock in case of an irregular spin, the aircraft stips rejection spin,
they quarters of a turn in the process of the spin, the aircraft spin stips, it
takes and drops its mose and at the amount the control on the aircraft spins, it
takes and drops its mose and at the amount with the deflection of controls retained.

The shades ont change to a reverse spin but keeps on retaining in the desired
the direction differ the rotation has object, on allocation of the aircraft increases
direction. After the rotation has object, on allocation of the aircraft in the hari
The angle of inclination of the fore-spin-art sate of the sireraft to the hari
The angle of inclination of the fore-spin-art sate of the sireraft to the hari
The angle of inclination of the fore-spin-art sate of the sireraft to the hari
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The angle of inclination of the fore-spin-art sate of the sireraft to the hari
Th



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Then in the regular spin, the sirerest rotates continuously mithout steps of delays; the angle of inclination of the sirerest form-end-art sais to the horizon of ries within 40 to ∞^0 and the alternating loads on the control stight and podels are

noticeable.

The duration of one regular spin turn is 3 seconds and the loss of altitude per
turn during the regular spin suber up 300 - 350 m.

288. The type of spin depends on the position of allerons when performing the

288, the type of spin dejects on the position of allerens when performing the maneurer.

The deflection of the salarons into the spin in the process of the sanaurer canculate (the control stick being shifted to the left in a left-hand spin, and to the right in a right-hand spin) increases the irregularity of the salaront rotation. The salaront stops rotating spore frequently and for a longer time, 'raises its considerable states the post-left spin in the salaront process above the borison, and the conent the relation stops banks into the opposite stick without setting the spin of tunbler direction. Stops in the salaront rotation result in considerable withstion and forces on the control stick and peckels, which that is being the salaron deflected against the spin in the process of the answers execution, the rotation of the sincrent in the right-hand and the left-hand stick in the force of the sincrent in the right-hand sand the left-hand stick in the rotation of the sincrent in the right-hand and the left-hand stick in the rotation of the sincrent with the salaron without slowed on the control stick and salar to the borison being 40 - 60°) and with a rery slight rice and dray of the salar to the borison being 40 - 60° and with a rery slight rice and dray of the salar times. In this case, so alternating forces are follown the control stick and salar times. In this case, so alternating forces are follown the control stick and salar times and the salar times and the salar times and the salar times and the salar times are salar times. In the source applied to the spin does not affect the nature of spin and the retains of the alternative retains regular.

289, with the control stick sound full back, the aircraft spin becomes stepped and now control.

239. With the control stick armed full back, the aircraft spin becomes steeper and nore energetic.

The aircraft rotates energetically almost continuously with an inclination again at 60 to 70 and the forces on the control stick and pedals are of a variable nature.

290. Then the syed brakes are applied, the spin characteristics and its rewret procedure remain practically unalisted.

291. The change of aircraft f.O. location within the C.G. operating limits does not have any considerable effect on the spin characteristics and the recovery from it.

592. The C-locks during the spin are inconsiderable and are not practically full by the pilot.

SPIR RECOVERY

SPIR RECOVERT

29). Recover the aircraft from the spin in the following sequences:

(a) energotically apply full pricel accions the spin, then, after a quarter or hair a turn move the control stick bull forward; with the control stick being normal forwards and in the process of the spin recovery the ailcross should be bell sentral (b) either the aircraft has stopped rotating, includedly set the pedale married, on resulting 300 both IAI, grainally pull the aircraft out of the diversity, after the pedale married for recovery, the rotation of the aircraft laves the seferal the aircraft has sade a quarter or half a turn, the control stick such the aircraft set accordingly senting at the ancest the aircraft arrows the resulting the control stick forward, the sirrest arrows the nose in sees cases that the spin aircraft arrows the service of the product of the sirrest arrows the service of the pedale and a tope rotating approximately after a quarter or half a turn.

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29a. In case of an impulse spin, the deflection of controls for recovery at the assent the rotation has support, results in insolints recovery from the spin wither disk, I a this case, to recover the sizereft, it is necessary to set the pedale setted, more the control stick beyond the neutral positions and sten the figing speed of 30 km/rs is reached, pull the aircraft out of the dive.

Tith the controls deflected for increasy at the somest the aircraft revisition has stepped, the sireraft recovers from the spin after not sore than one turn. From a require spin, the aircraft recovers first excepted star samptile and full deflection of controls for recovery in a proper sequence (first the pedal sed, then, the control stable increase the separation one and a best furns.

The forms to be applied to the controls to recover the aircraft from a require spin, are asceptant higher than in recovering the aircraft from air irregular spin, are asceptant the self-turns.

255. The deflection of the allerons into the spin, with the control stick moved formed, does not affect the recovery of interest from the spin.

With the dilarons deflected against the spin, wills pushing the control stick, the cirreft recovers from an irregular spin with run delay and fails to recover from an irregular spin with run delay and fails to recover from a firegular spin with run delay and fails to recover from a spin the spin, the spin against the spin.

256. With the pressure on the postals and control stick released in the precess of an irregular spin, the pedals set in the neutral position, the control stick spin the stirregular spin, the pedals set in the neutral position.

257. It the sequence of deflection of the control a tick rates set as a recovering from a regular spin with the control be related to the spin that are set to properly observed than recovering the activation of the controls sick and, then, of the spin into a tarked direction of the controls sick and, then, of the spin into a tarked direction of the controls sick and, the

300. If the sircraft falls to recover from the spin, the pilot must abandon the sircraft at an altitude of 2000 m.

INCOMENTAL SELS SECURES

301. If inadventent spin course, bring the simple to developed a stealy spin by pressing the setal in the direct end applying forward pressure to the control stick, then, we will flight.

.re before it has to to the turn or aircraft to le50X1-HUM

X2. If the pilot falls to keep the eigeraft from spitting of the latter astern to appear of the spin, he must proceed as follows:

SECRET/NO FOREIGN DISSEM (a) shift the engine control lever all the way tasks

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(b) determine the direction of aircraft rotation;
 (c) apply the controls into the spin and testralise the ailcrons;
 (d) use the spin recovery procedure, discussed above.

INVESTED SPIR AND INVESTED SPIRAL

137N/ED SFIR AD INVESTED SPIRAL

103. The Rain-17 sixtreft can inadvertently other the invested spin or the invested smirel only in case of the finance arrors in flying technique or in case of three pashing of the posts and control attick, with the controls being fixed for a long time that the definited positions:

(a) when performing flight samestars at an indicated airspeed less than 20 min with the aircraft in the techn-up positions;

(b) in invest flight then look of greed and dropping into a normal spin (c) then improve the holding the controls in recovering from a normal spin fitth the aircraft entering the invested origin from the wheele-up position, it performs an irregular (with negative G-iosal) half-roll or a 500° roll, then, make succeptually a none-demoving-over, aromes the wheele-up position and enters the investigation.

gestically a none-down-ving-over, assumes the wheele-up position and enters the inverspile.

Armyr pushing of the podal and control stick and their fixing in the above postion in level flight, at the meant the eigeraft drops into a natural spile, will subtion in level flight, at the meant the eigeraft drops into a natural spile, will subtion in level flight, at the meant the spile and the spile of the spile of

ATECRATE EFFAVIORS IN INVESTED SPIN

ARCHIT EPANICE IN INVENTED STE

No. After entering the inverted spin, the absence one or one and a half
can of an unarranty inverted spin which is characterised by:

(a) irregular returned of the absence of the vertical plans;
(b) considerable Threation of the sirrents nose in the vertical plans;
(c) alternating forces on the controls.

After one of one a basic turns of the unsteady spin, the sirrents them can expend the same terminal by:
(a) regular rotation of the sirrents nose in the vertical plans;
(b) lease viteration of the sirrents nose in the vertical plans;
(c) more constant forces on the controls.

When the sirrents is in a steady inverted spin, with the alterons eat in a sortral position, the angle of inclination of the sirrents force-and-cut axis to the bott-

see makes up approximately 130 - 110°. Fith the afterons deflected against the spin,

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nee makes up approximately 100 - 100°. Bith the atternors deflected against the spin, the apin became shallower.

In a steady invected spin, with the atternor in the neutral position and as well as sith the atternor definited register the spin, the pilot does not see the neutral bariese. Owing to the invected attitude of the strength, the investibility of the samuel bariese, owing to the invected attitude of the strength, the investibility of the samuel bariese, and the faction of afternors direction of maximum objects, the origination is space and the faction of afternor direction of rotation are happened, in an investible spin the strength along the transfer of the samuel of the present point. The duration of one turn is 2,5 to 3,0 seconds and the less of attitude per turn is 300 to 400 s. The right- and left-thead spins differ but allegity.

AIRCRAFT EFEATIONS IN INVESTED SPINAL

yos. During the first one or one and a half turns it is practically difficult to distinguish the inverted spiral from the inverted spir by the behaviour of the aircrast. Reverse, by the end of the second turn the pilor can easily descrains that the sirecast is in the inverted spiral which is normally characterized by:

rate he in the interest spiral auton is horsally characterises we (d) increase of speed;
(b) lower rate of angular rotation than in an inverted spins (d) larger forces on the controlles;
(d) larger negative G-loads which increase with the increase of speed.

RECOVERY FROM INVESTED SPIRAND INVESTED SPIRAL

MINOTEST FROM INVESTED SPIR AND INVESTED RYPHAL

306. To recover the aircraft from an invested spin or spiral, proceed as follows:
(a) sore the engine control lever backward;
(b) set the préals and tilerons in the function and stantizerously pull
for corteol stick to slightly lackward of neutral until retains about
(c) after the aircraft rotation has stopped, pull the sircraft out of the live.
In this case, the aircraft stealily recovers from the invested spin within not
have than one or one and a half turns.
The loss of allitude during the invested spin entered spin still not
light, ankes up 1700 - 2000 a.

If, with the aircraft recovering from the invested spin, the control atter is
fellowed backward and to the side opposite to aircraft residue, the similar recovers from the spin with a greater delay (sinhin one and a half or two turns).

If, during the timested spin recovery, full pelad is preceded into the spin, the
sirraft any fail to recover from the spin, in this case, the aircraft say change
from invested to normal spin fit the control attel is defined a backward and to the
slide apposite to the presend pelad. Releasing of the controls in the invested spin
service has not recovered from the spin and the controls in the invested spin
service has not recovered from the situation of the controls in the invested spin
service has not recovered from the invested spin down to an airtitude of 2000 spine
spints that has alcraft recovering with a celay of up to two or turns unner. If the
Grant has hould abunden the aircrafts.

H. PHON IN ATTEMPS HAVES COUNTY OF INTERNAL ARROWS AND ENTERS V.C. O. CELLETT, M. T. DON'T SIK-TOM AND EST-A PRIOR COURTS INVESTIGATION

307. The cofety of flying in adverse weather conditions, accurate instrument applications and landing using the COI system and COI with PCI-6 landing applicas are co-

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(a) good mosteles of operating instructions for flight instruments and sing redie p

ratio swrightles equipment;
(b) reliable spreading of sireraft equipment and ground side of the full end
[KL-4 leading systems;
(c) proper salateonors of flight attitude at all stages of instrument systems.

and laddings

(4) correct and timaly estimation of flight weather conditions;

(a) regular training of pilots in flying under adverse weather conditions, rule
the cold instrument landing system.

303. Flights in adverse weather conditions at the seather minimum presented to
the given airfield are performed with manlatory implementation of the aircraft and to
field radio and lighting equipment.

BEFORE PLICHT

ECOME FILTON

109. Nature DEC flight, the pilot abould sake sure that give horizon ATA-1, resour-resding greenquestic comess JEM, low-slittude ratio altisates Pa2, actionity
file company ATA and other flight instruments operate reliably. Thenever retreaser,
they the shove instruments estitionally for proper functioning. Kink correct the sotrick the force instruments estitionally for proper functioning. Kink correct the sosorted is filled with de-leting fluids.

100. By prevent the interact starting only in a flight with a facility give both
starting prevent the interact starting only to -3000 not later that it
first after state-off, for which purpose, before setterling on the instrument, preblue the starting push-batton on the purpose, before setterling on the instrument and, then reliable the starting pushsit these consignations of any time of instrument rendinesse for operation, in tenpreventing before 3000, cat in the instrument a similar before the take-off,

111. Out in the bester of the sain pittor-static tube and swargarry pitts the

112. It is not allered to begin DE flight if the pilot finds the aircraft equsent imperative or radio commitmation equipment and sirfield radio arrigation still
correct irregularly.

13). Normal Flying is advance weather conditions largely depends on the correct ness of groe borton resdings.
To excut strons occuring in the gree horizon resdings, proceed as follows:

(a) part arms at a bank of 20 to 45° then gree horizon AFA-I is extended

on

est (1) setth on the gro location in flight only when the aircraft is in the less (1) setth on the gro location in flight only when the aircraft is in the less (1) performance of gro locations are the growth of t

BETTERN AND MARKED CLASS. PROTESTED OF TRANSPORT PROACH AND LANDIET WISH OF INTEREST LANDING TO THE STORES. 50X1-HUM

SISTEM AND POD- MINE CONTROL EXPLISIONING

135. After take-off, retrict the ladding over and, at an elithide of minimum
150 s, chock the resdings of the gyre horizon against the excital minimum of the strucconditrictive to the natural horizon, then, gradually increasing the climbing angle,
there is attracted to climbing, beinging the true airposed by to 750 km/r, with the
sugge the aircraft to climbing, beinging to true airposed by to 750 km/r, with the
signs pumping at morsal rating, Mulle doing no, with the sirroral climbing, the indicated stropped and the resdings of the rate-of-collab indicator will decrease. Climbing and cloud parameters during airm filipses for fail target increacipties
are performed at take-off (combet) engine rating (11,550 r.p.m.) and a true airgosed
of 550 km/r.

of 50 ke/hr.

16. Instrument syproach and landing, with implementation of the GCI instrument leading system or the GCI system with the FCI-s radar control landing system, may be performed by the wide rectangular partners approach procedure, two-fci-sture approach procedure or by the wide rectangular pattern approach procedure, and the main instrument approach and leading procedure used when leading approach to main instrument approach and leading procedure. If the approach to the rarmy is not accurate, or the pilot commits error in mis judgment for landing, which requires governound procedure, or if the viceal landing approach by a small marfile pattern proves impossible, perform approach and leading using two-fci'-turn approach procedure or the wide rectangular pattern approach procedure.

DISTRICTION APPROACE AND LANDING USING STRAIGHT-IN APPROACE PROCEDURE

1957. Approach the outer heeling station at the assigned flight level or at 200 to 20 a show the cloud top from any direction, having first requested the flight control of a show the cloud top from any direction, having first requested the flight control officer for instrument leading discremented badding instructions.

196. After being cleared for an instrument approach and landing, ast the value of ground pressure on the elitistic scale and the scale of the remise-residing greenagests of the landing course with the labour line on the flied section of the scale.

196. Check the entry of the outer marker made of action by the filterering of the signal lamp warrar (MIRAT) and by the suite signal (will ringingly) to an altitude of above 500 a - only by the mustable residings of the site of about 500 a, and at altitudes above 500 a - only by the unstable residings of the suiteratic radio compans hearing indicator. Fix the time the aircraft passes the outer badies station by the change of radiage on the automatic radio compans bearing indicator from 0° to 100°.

120. Fly from the hearing station on the course which is the reciprocal of the first opposeds course and perform a maneuter above clouds to intercept the final expression course and indicated sizeped of 500 lawler.

121. On incareacting the landing course, artend the landing gear and deflect the finance of the one, set an indicated sizeped of 400 lawler and change the sizereft to a fessessing flight.

122. Expending on the elititude, the rate of descent, when on the landing course, should be down to an altitude of 2000 a - 30 afone, from an elititude of 2000 are 15 afone, form an altitude of 1000 days to 1000 and 1000 days to 1000 days to



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at mis attitude (in the clouds or unior the cloud base) until settering the outer maker bearen uses, having decreased the (1)ing speed down to MO harbit. The altitude of the attention tensing the outer marker bearen sone, lanciately shift the automatic relate corpus range frequency band to the frequency of the inner narker bearen into radio corpus range frequency band to the frequency of the inner narker bearen and, animalizing the ratio station relative bearing equal to 0°, fly on the inner maker bearen as the third of the pred down to you have bearen bearen. After printing the outer arther bearen, decrease the speed down to you have bearen bearen. After printing the outer attraction, decrease the speed down to you have bearen bearen to be to 0 a.

125. Baring passed the inner narker bearen, set a gilling speed of 260 km/ar, finalize the leading estimation and perform a visual landing.

126. If it is impossible to had the attract's right after cloud penetration (speed in too high or the abstract is not occurrately aligned with the lending icomy, each, make a generous and requent clearance to make visual approach for landing to be cloude or, depending on the sentence conditions and terrade, instrument approach procedure or the wide restaugling pattern approach.

180-180°-1URN AFFROATH PROUPDONE

170. In case of clear approach, when the pilot decises to make a two-ico variety approach, when the pilot decises to make a two-ico variety approach in the should lost the time when the aircraft passes the inner marker become and climb to an aircraft of a second process and the control of the process which is the reciprocal of the leading course.

Then about the other action become need the expectation resultings, report the suffernity control of the c

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MIDE SUCTANTIFIER PROTESTS ADMINISTED ASSOCIATED

But SUGGATHAR FILTER PAPERS PROCESS

J.S. Fine going excuss for meating a locating expression using the wife rectangular pattern procedure at a speci of Sof marke, climb the aircraft.

On the elapse of estimated than, after proving the inner carear beauts, turn to requested leg strongs by 3 and continue to climb up to a maintide of Sof a son a vertical speed of 5 afters. Having risked the prescrited abilities, return the sizeroft to level fitcht, establing a speed of SOC bafar.

On resulting 200 (120% releases beauting of the radio station, perform themsical up turn with 300 bank to intercept one source, which is the restricted of the sacking course.

course.

Earling reached 300 (1909) relative bearing of the ratio station, size a base
jog turn through 900, and on reaching 2650(190) relative bearing of the ratio reaching
performs fixed turn in a borisontal plane to intercept the lunding course.
After lotter-plaing the final appress occur, while on the December level fining
jog-decrease speed them to 450 km/km, extend the inclining gear and deficient to fining
300 form, report ower the ratio and decorate the surrount at all vertically \$4.00 for \$1.50
\$5.600. At an alliance of 200 m return the atteract to level filight and return to

years, as no existence or good a feature the electrical or least region for a compared from the AND Zmalze.

120. Remonstrate, the flight providing in the cum may be read of tending from the proposity providing.

SHE-FRANCE PATTECN COURT.

301. Then approaching the similarity, thris to see that:

(a) the riccula between of your and body structure are cut off;

(b) the safety gracia are locating the upper first control published routed in the central stills.

(b) the safety gracia are locating the upper first control published routed in the control stills.

(c) the sain six systems is upder presents, and if the value of presents is featilished, thenk the ourceptory system filling waiter for each of opening to ensure small functioning of two brakes.

301. Decrease engine speed and, if secentary, apply the speed orders to set a fluing speed of 500 km/hr, then, enter the striked traffic pattern at an electric of 00 m.

LANDING GEAR VALUE STOR

332. Extend the landing part before making to base leg, turn at a flying spred of 50 ba/ar, by shifting the landing ger lever down (Miscollet). The normal domaits of landing gers extension is 3 to 10 seconds.

333. The extension of landing gens is marked by the complete protruster of machanical indicators, by the Closk of green saming large and by the full pressure value in the bardward system (100 to 10 deglectual). Est the landing gers lever in the Miscollet (Miscoll) prairies before taking our the aircraft to the partial place and Stephing tee argume.

335. After extunding the lenting gens, release the forces on the control stick by the elevator tria tab and look the next believe.

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AFT OF THE WORLDANDERS

Above the necessity of the account of the alternate level and perform him for turn at a speed of AO in the little on the tour lay at a speed of SO into the lay at a speed of SO into the force turning the account of final lay, there the first, if then in the whole posture (for down) and, then, in the healthn posture, and check the extend of the first by the earning lights and the mentantical indicator located on the layer. Do not remove the bind from the fuer confer until the fleps are completely

So not renew the hand from the fingulatelysis until the Clays are completely interests.

336. The first turn should be executed at a waged of minimum 300 books with a transfer great. The hardworks was be recovered from the final turn at an size time of minimum 200 s.

Earting turned to final, set a great of 260 to 250 km/hr and gilde at the above speed up to the beginning of irrelling-orf.

The pilot will gills for landing rectusing an intelligitions of spitionalise at preman finalize the interest by shoulding the entire speed.

329. It came of these transfers of the contemperature from any circumstance of the size of the strength and the spition of the strength and indicate the size of the

1 to 1 contacts. To stating a speed of 300 buths, he will assume cuimbing actitude and gradual contracts the firthe speed. At mathematics of full a and a speed of sinking NO major, retreet the flept of these matters represed for landing. Amount opposes the desire, because, the winder two interest with ectivation in the state of the

AND 19 At an attitute of 37 - 20 m and to the gave towards the ground to the last and forward at 10 - 15 steple, and Cormand at an angle of 15 - 20°, to the point of a filteract is decembring to.

State leveling-off as an attitute of 7 - 6 a, amouthly pulling the control similar decembrancy me giving state in a stitute of 30 - 6 a, amouthly pulling the control similar decembrancy at an attitute of an angle at to bring the aircraft to the grant (supplementary of the aircraft of the site of the

If during inoting the pilot looks at the ground through the statebield if the judgits energy, then, with the sirreaft tellooting (bounding), the ground turbus mild be covered by the front section of the sirreaft, creating a false imprecision of the height of bellooting. As a result, the pilot is likely to sake them altraces agree pulling of the control sites and, then encounts and energetic pushing of the control sites and, then encounts and entry site pulling of the control sites, which may result in be bellooting for the siteraft.

32. After two sain wheels contact the ground, the pilot should not apply either the pilot back pressure to the control sites but hold the control site in the truth-form position until the near wheel case to touch the ground, the direction of rilet's sites being the steem as during the 'floating procedure.

33. As soon as the none wheel control to the ground and the aircraft has started rolling on three wheels, the speed drope from to a value preventing the sirring procedure.

To silled brokes the steels between the saint the gaze sheed and begin brasely.

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craft from lifting off the ground; the pilot must miff; the gore aread and begin brancing procedure.

The pilot brakes the whoeld by amoethly applying pressure to the brake lawer, i.e. by gradually increasing pressure so as to puil the lawer to the frate-stage step by gradually increasing pressure so as to puil the lawer to the first-stage step by the end of the mirrorst lawring prolification of the aircraft lawring prolification of your and whap chocks to the mirrors.

Thenever necessary to reduce the length of limiting run to the stadium, press the trade lawer in such a way as to puil the links lawer to the second-stage step by the end of the lawring round long to grade lawer the first law in the stadium, present in cround long to either side. If this is the case, lower the brake lawer to release the crossist points in the matteral position and, then, gradually apply the whole brakes spiral.

36. If no air pressure is eventable in the main air supply system during the laming of the mitward, incollately open the croke system grands and they are not be confirmed to the substact, incollately open the crake system confirmed such as the case, will operate were though the air system has a tradition.

36. If the lattice has been applied); if necessary, unpressures the confirmed (if the lattice have been applied); if necessary, unpressures the confirmed (if the lattice have been applied); if necessary, unpressures the confirmed of the campy and out of the aircraft transponder and the 45 authentic ratio of the lattice of the lattice for the aircraft from the case of the campy and out of the aircraft from unleading the pure (receiving the campy and out of the aircraft for unleading the pure (receiving the campy and out of the aircraft for unleading the pure (receiving the campy and out of the aircraft for unleading the pure (receiving the campy and out of the aircraft for unleading the pure (receiving the campy and out of the aircraft for unleading the pure (receiving the campy and out of the aircraft for unleading the

parate the ground to the late of 15 - 20°, to the point to colony and cut off the starrest transponder and the OF autwards radio copying to the point to the control of the point to the aircraft first and the point to the provided the point preceding the point preceding the point preceding the point pulling the point and prevent the point and the three context with the ground and prevent the private point to the provided the prevent to point to the provided the prevent to the provided to the prevent to the provided the prevent to the provided to the prevent to the provided to the prevent to the prevent to the provided to the prevent to the

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and eliminate the tenk by energetic a_{μ} direction of the point assumed the tank. As the element cases the ground, land it on two main wheels by applying full tent practices.

In case of high levelling-off (above 1 m), stop pulling the control stick and, then, with the leading speed decreasing and the structured meaning the ground, paring owner) leading on two same shorter.

GOSTIE LEGIS

349. White leading in a crosswand, the pilot will correct the drift of the ap-

38. While leading in a crearron, the pilot will correct the drift of the ancest's persympt the system and the sign of the sign

PERDING OR CHARACT BOLLMAN

351. Leading on the even mayored running down one diction from that on a compress

351. Lading on an even unjoyed running form and differe from that the form and the finding on where or and, on and allow early theoretic of the norm shorts. These landing on where or any or any street the ground equal project and while contrasting moved grown for the form and providing the first hand, then the street of the providing on the first and, then, up to a - 5 keylaces. Perfore electing the runny, increase the engine speed slightly beforehand on as to growen the sire cast from stopping and clear the latting running an quickly as possible.

Bitle taxing on soft ground, elect the gest temperature.

STOPPIES HASING

359. If the engine was running on the ground at a take-off (contat) rating it should be occoled down before stopping, For this purpose, Fun the engine at 500 to 7500 Fp.ac. for I min, set the engine occurred lever to the idle rating position and pressurine).

presentiate).

35) With the engine control lever set to the idle rating position, close the first stepcock (lift the storock hardle all the way up) and our off all the circuit breakers, except for the circuit breakers, except for the circuit breakers of the storage battery and the fuel besits.

preserve, except for the strough breaker of the efforable battery and the journess.

Juag. Is seen as the explain turbine stipe rotating, out off the battery and breaker
peap climate breakers by the eighal of the ground engineer.

Set the leading sear court breaker in the returned position, hereing first shifts
of the latch to the right, and not off the facility sear electric method.

354. Address fearing the couplity the pillot should do the following:

(a) discrete the loss of the paramitus carges expective from the bose of the
strengt copyed apparatus.

(b) disconnect the pull chain of the parameter oxygen apparatus from the torager

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(c) disconnect the base of the first anti-G sub;
(d) disconnect the cort of the paradius release control unit from the set are to eroid paradius opening. The release the time accountry for preparing the pilot for the next flight, it is alread to leave the paradiute in the country.

355. Give recensary instructions to the ground empineer for eliminating failty is atteraft equipment which have been detected in flight.

THE PRESENT PROFESSIONS

BECCEDERS OF SECONSESSING EDGINE STITUTE IN SIZERS

356. If the engine cuts off in flight under visual setecrological conditions, proceed as follows:

preced as follows:

(a) immediately close the fuel stopcock;
(b) shift the engine control lever back to the idle resing position;
(c) shift the engine control lever back to the idle resing position;
(d) cut of the SEMERATC and the circuit breiter of the sirvant transponder.

37. If the engine fellow is an elicitic take 2000 a, do not try to start it, peopling on the situation, proceed so follows:
(a) if the aircraft is in the vicinity of the sirried and the slitting of flight permits the aircraft to reach the sirfield by slitting extend the limiting gear and pricars a leading:

flight permits the aincraft to reach the airfield by Sillied, extend the limiting dear and performs a landing;

(5) If the flight is certifical over even ground (seatow or pleughland), size a forced grampy landing;

(6) If the flight is performed over the ground unanimals for a forced grampy landing, shandon the aircraft using the ejection seat.

38. In the event of excluse failure at an allitude store XCO s, attempt to start the engine. If the pilot has failed to start the engine failure of XCO a is resubed, he chould proceed as indirated above.

59. If the supton fails at an allitude store 11,000 s, descend at the autimal possible vertical speed down to an allitude of 11,000 - 10,000 s, checking the value of flying speed.

D). If the sognal tails as an abstract process of the process of thing speed.

Distilla received a peed down to an altitude of 11,000 - 10,000 a, checking the value of fluing speed.

Distillating at an abstract or above 2000 a, unual process as follows:

(a) close the fuel stoppeck;

(b) charge the afternaft to (assembling stitude);

(c) close the fuel statice and the ascendit transponder;

(d) advise AFC on the segment allows a straight line;

(e) then contag out of the clouds above 2000 a, start the engine and out in the CATALLAND of the above 2000 a start the engine and out in the CATALLAND of the clouds above 2000 a, start the engine and out in the CATALLAND of the clouds above 2000 a, start the engine and out in the CATALLAND of the clouds attractions of the strength line;

Dist. If, while descending in the clouds with a failed engine, the sirreaft has a come of the clouds therefore an altitude of 000 as a reached, or has come out of the clouds thereoft an altitude of 000 as the reached, or has come out of the cloud strength cannot be should above 2000 a, the print chould state the altitude state.

Dist. In all cases of entire failure, salls flying in clouds at an altitude below a, the plant above 2000 a, the plant about the salls during a night flight at allitudes above 2000 a, the

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pilet should try to start it. If the engine has failed to start before an elitracy 200 m is reached, and leading on the lighted runway of the home attribute proves in possible, the pilet should should also at aircraft using the sjuction seat.

Moint Stating is placed with the agency of the second processing the atteract to an electrone of 6000 a (or with the agency of t

The reliable starting limits of engine ME-1 are characterized by the data present of in 1910 8.

Reliable Starting Lin

tinde,	Indicated speed,	
5930	ka/hr -yead,	Rotor speed of inoperative
4000	300-400	engine, min
3000	300-500	800- i150
30.4	360-600	600-1230
ALT FEEL CO.	art the ording to at	600-1230 800-1350 us closing the stopenek, since it ture and a shourel increase of

PROBLEMENTERS OF STARTING ENGINE, MODEL ME-TA. IN PLICAT UNDER SINTER CONDITIONS

joj. The altitude and flying speed at which reliable starting of engine M-14 pared under winter conditions, depend on the temporature of fuel in the aircraft

ps series uses the temperature of fuel in the fuel tanks equal to -10°C (which is correctly the case show the directly is parked for sician 26 hours at a temperature of an added sair down to -00°C), the reliable electing of engine 26-11 in flight on aircraft kill-11 is ensured at altitudes and speeds specified for engine 26-12. Begins starring at altitudes from 5000 to 6000 m is unceitable and at altitudes does 600 m does not start at all, therefore, do not start the engine at altitudes hore 6000 m.

shore 600 a.

Reliable starting of the engine in flight or altitudes and speeds indicated in thile 8 is slee provided for after gliding the afteraft with number angine from al-titudes of 10,000 to 11,000 m, since in this case no overcooling of the engine times

place.

Then the temperature of fuel in the eigeraft fuel tanks is -20°G and less (the Then the temperature of fuel in the eigenant fuel tanks is -20°C and less (the fuel importance within any be observed when the aircraft is parket for about 28 hours at a respirature of an antient air of approximation -30°C and lens), the dittiest and spend at which reliable netwing of the engine can be easiered in Hight the continue of the second at the continue of the continue o service and speed at which reliable starting of the engine can be sourced in flight Notes in die seate with the temperature of free! in the feet tends. In tide case, start the engine at altitudes below \$500 a with flying speeds of 500 to 350 km/2r. On aircraft km-17 the engine may also be started in flight ofter a continuous didding (up to 7 min) with out-off engine and out-in siteraft consumes pecessary for carring out a flight in aircraft consumes pecessary for the first out-off engine and out-in siteraft consumes pecessary for carring out a flight in aircraft consumes pecessary for the first out-off engine and out-in aircraft consumes pecessary for the first out-in aircraft consumes pecessary for the first out-off engine air constitutions.

The column state of the co

PROJECURE OF ENGOGREPHING PRODUCE LOOSE

366, then the angles is larger, the orgins speed does not increase with the engine control lever anifted forward, but recains unsitted slightly shows the flight fillerability speed. In this case the pressure on fuel is low but not less than 8 - 10 kg/sq.cm

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•

- 68 and the temperature of games is low too. The engine may one one logary at an altitude

the temperature of game is low too. The engine may oncome logary at an eltima-ove than 700 m.

367. If the engine is logar, proceed as follows:
(a) put the engine control lever to the IDER MITTER positions)
(b) cut is the isolating values:
(c) elightly moving the engine control lever forward, wet the required engine
(c)

of (d) if the engine eyerd and gas temperature cannot be restored, descent to as

(d) if the engine system at the state of the deplating valve and head attitude of 6000 mg.

(e) after climinating the engine logging, cut off the deplating valve and head for the landing safficial. Sources 1. The locgy engine restores its cornel operation without any interference on the part of the pilot with the alternate descending down to an altitude:

6.00 the abouth term in such that a locgy and a spontaneously cut-off sofine can accutions be confused.

PROCEDURE OR ENCOUNTERING ENGINE SURGING

PROLEUME OR ENGLANTERING ENGINE SUBSISION

16a. Engine surging can be detected by the change of usual sound produced during operation, the drop of engine speed, and relate like of each conservative behind the tending state of the control of the c

PROGRAMME OF EMCOUNTERING SADIO COMMUNICATION FAILURE

PROCECULA CE EXCOUNTERING RADIO COMMUNICATION FAILURE

171. In all cases of under failum of radio communication, proceed as follows

(c) check the attachment of plug connector in the behind adapter cond;

(b) check if the union control tack is as a tack and adapter cond;

(c) check the radio communication to the tentum and bility;

If ratio communication fails when flying under the cloud bose, do not enter the

172. Should rade communication fail when flying in clouds or above the clud

switch on the distress and real when flying in clouds or above the clud

switch on the distress alignity here on the sirrioid radio station, strictly-spiritis
flag the flight conditions, and, using the radio set as a transmitter, perform the

173. If radio communication fails buring a tight flight, proceed in the same sty

sas then flying in clouds, and live a flare of any colour when turning final or after

flowedlights.

185. If the howing station is now the signal for switching on the justice.

bots. If the howing station is provided with additional equipment, that is comes frequencing organic can be received through the six future can be received through the six future in the six of the control of the cont Secretary, for much purpose, with the transmitter functioning pages (a) series the ground on weighting-over to the ATX automatic radio car (b) set the RADIO OCCIAGO RECRITIVE (DIEDS AIK) CHARLES OF FOREIGN DISSEM

BADIO COMPAGS (AIT) positions (c) cut the ratio compass control panel in the Lore (ART-AIT) position, and the charge-over review for the Table Total Control of the World position, and the charge-over review for the Table Total Control of the World position care from the filest position of the Table Total Control over the Control of the World position, otherwise, to come indicator will not show the direction to the boding ratio section.

PROCEDURE OR EXCOURTERING GIRO ECRIZON PAILURE

SOCIALLY ON ECONTRAINS GIBO RESIZES FAIRET

J74. Fillure or incorrect resizes of the gro horizon in flight is detarmined
in any flight attitude (level flight, cliable, decessed or basiced turn) only by corparing the resilings of the whole grap of flight instrucents twice jointly,
j75. If the grow norten is faulty, pass over to plotting the sizeraft by the
turn-and-ally indicator in conjunction with the speed indicator, rate of cliab indicater, situation, of JRM frastor-residing growagestic cospens.

Kaintain the flight attitude checking the roll control with the turn-and-elly
indicator, pitch control - with the speed indicator, situater and rate-of-cliab
indicator, and directional control - by the turn indicator with additional check by
the growagnetic and subcontic radio compasses.

PROCEDURES OF DECOUNTERIES SPEED INDICATOR PAILURE (total-pressure line defective)

(total-pressure lize defective)

176. The failure of rged inficator may occur not insediately but grainally. Therefore, first make sure that the speed indicator has failed. For this purpose, without changing the engine opend, caucitly change the storraft to descend or climb checking the actitude by grace horizon in 174-1 and by the rest-of-climb indicator. If the speed readings do not couply with the flight attitude, with the other instruments function normally, it seams that total-pressure little has failed.

177. Should the speed indicator fail so operate, first check the exitating of the pito-statist such beater and change the supply of impact pressure from the main pitot-citic tube to conspend pitot two BH-156.

Check the flight attitude by the readings of the grace horizon, varies speed indicator, rate-of-climb indicators and altimater.

In case the speed indicator fails to operate, it is advanced to assistant the entire speeds indicated in Table 9 at various flight attitudes and during a straight-in approach for leading.

T = > 1 . 9

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Plight attitude	Indicated mirs; ccd, km/hr	Vertical apeed, m/sec	Ergina apeci, r.p.m.	Pitch engle i	
	2	3	4	- 5	1 6
Cliab	500	15	10,500	5	innding year am
level flight at altitude	500	0	9520	٥	Suze
Maxisum esdurance condition		i	l	'	
at altitude 30xx a	1		2733	0	Same
et altitude 5000 a		l o	83.0	٥	Size

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G112++ to altitude 2000 m Landing goar ca.
tended, flaps
deflected
20° drum
Same
Same
Same
Same 450 from 2000 to 1000 m from 1000 to 600 m from 600 to 200 m Level flight at altitude of 200 m 450 450 450 450

Note: When flying with drop fuel tanks, maint higher than the speeds given in the table.

FROUDERS OF ENGLISHERS SPRED INDICATOR, RATE-CF-CLIES INDICATOR AND ALTIMOTES FAILURE (pitot-static tube line defective)

ASTRONOUS AUDITORS ADMINISTE AND AUTHORISE FAILURE

(pitot-static tube line defective)

375. Simultaneous failure of speci indicator, rate-of-clibb indirator and citic scare (pitot-static tube line failty) is first detected by the behaviour of the rate-of-clibb indicator whose poinces settles abrurbly in the sero position or slowly reserved to the africation of the controls, and also by the realings of the allifecter price and the attraction of the controls, and also by the realings of the allifecter whose poinces settle reals unclived a settle reals unclined at the attraction and the pitot-settle tube line defective, is the LFT-1 gyro horizon, operating in conjunction with the excite appeal indicator.

The flying shore 2000 a the flight initiate is determined by the realings of the JBM coccept altitude and presence differential gauge (with the cocpyti preserving state open to agently, the cockpit "altitude" spusia approximately half the altitude below 2000 a, it is practically impossible to determine the flight altitude below 2000 a, it is practically impossible to determine the flight altitude below 2000 a four to the ground markate, the flight altitude is JSD. Ferform approach for leading when flying over the cloud top. Intercept the landing course above the cloud top as accurate as possible, after extending the landing gear and lisps, set the necessary rate of descent and without changing it enter that turning who descending in clouds on the landing course.

slouts.
Arold turning when descending in clouds on the landing course.
Fails descending, asiats in the flight conditions indicated in Table 10.

Iltitude	Danie	Table 10	3.6
	Prech angle Theire ap	ed. Special sotes	tion of
Cp to 4000 .	Piproz. dag	:	12 coi
(cockpit altitude aquala	10 7500	the resitues of the EME	0.62730
		orm to the landing course and	
		SECRET/NO FOR	

		7	
From 4000 down to	5	8500	the APK automatic radio company reads sero Keep the readings of the LTM remote gyrmanmetic company and AFK automatic radio company un-
to 200 m		35.0-10,000	altered

Bith the aircraft coming out below the cloud base, fly it by the argine speed and the pitch angle, thoroughly cheering the stitude by the PB-2 redic altisates and by communits from the ground.

300. If the instruments have failed under seather conditions alleving the piloting of the sireraft in pair, and the pilot has been trained in downward cloud penetration in close pair formation joss the sireraft cast by the flight courted officer, then flying over the outer boning station and perform an approach for landing in pair.

301. If the thickness or clouds is every large and the shitthes of the cloud base is too low (below 200 m), or in case of poor visibility under the cloud base and instricted the cloud base and instring of the pilot in downard clouds perstration by the readings of the grow horizon pitch angle in conjunction with the engine speed value, the pilot should take a description to abandon the aircraft by ejection on the paralession of the flight control officer.

PROCEDURE OF ENCOUNTERING AIMS REPORTS-READISH STROMAGENTIC COMPASS PAILURS

382. The failure of the remote-reading gyronogratic congens to determined by the following intications

following indications:

(a) the compane readings to not correspond to the actual aircraft heading;

(b) the compane readings to not correspond to the actual aircraft heading;

(c) who executing a banked turn, the echyman course indicator fails to read the change of aircraft heading or the change of the compane readings is justy.

(a) If the compane fails to operate, first acts critical the compane fails to present in the compane fails to operate, first acts correct in the compane fails to operate, first acts correct in the compane fails to operate, first acts to the flight control officer. Algorithm the hosting that all the fails compane in conjunction acts the reading direction for first acts. All the heads of the read compane in conjunction acts the reading direction finite of data, and by the commands preserved from the flight control officer.

PROCEDERS ON ENCOUNTERING APE-5 ASSURATED RADIO COMPASS F-THURS

384, The AIM substite ratio compass failure is detarmised by the stationary position of compass jointer, with the direction of flight changed, and by the continuous relation of compass jointer, with the direction of flight changed, and by the continuous relation or contillation of the write compass pointer.

If the rethe compass fails, sace sure the ratio compass circuit hreater is out as on the function swatch counted on the ratio compass circuit panel is set in the GUIMIO (AIMIGE) position. Reject the flight control officer on the operation of the lexing station and check the subspirate of the AIMIGE particular by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight southed by the gravangetian compass when approaching the flight control by the gravant particular than the property of the property of the property of the stripe of the property of the property of the property of the stripe of the property of the pr

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radio bearing and by interrogating the leading sirfield control post. Should the ra-dio compass fail was firing in clouds or slows the cloud top, parform a leading sp-proach with the help of the gricesports compass, by requesting the radio bearing as by seemands of the flight control offices.

Commander at the files, control delicer.

Atte, if the pilet is the subtract to the correctness of the ratio companies reduced in the country of the pilet is the country of the country o

INCCEDING OR EXCORAGING FIGHTING ECCLORECK INTINGS DURING RICHL LITTLES.

PROCESSED ON INCOMPANIES LIGHTEN EXCISENT FILLING DAVIS BLOTT FILEST

35. If the navigation lights fail to operate, act with due care, especially the approaching the sirriely, and report the position of the aircraft to the filight control of the second condition, periodically out in the headlight for solving the position of the aircraft.

The survival case position of the electric terms and the survival case of a company of the survival case of the survival case the cocquite distribution of the survival case of t

PARCEI LINEIS PACELIES.

186. In case of power-off forced leading the pilot will make approach for linding with retracted leading gear and flaps at a gilds speed of 350 km/hr. So should stream the leading power of flaps using the secondary procedure only if he is should by save that his judgment for leading on the attribute has been done correctly. His landing gear and flaps extended, the speed in gilds should be 200 to 200 km/hr. Partracted, the flaps lowered by sense or correctory conducts, and the suspended leads released, the skilding speed in this cases should be kept at 270 to 200 km/hr.

Sentions: 1. Perform forced leading with the leading sear related only on the

Cautions: 10s ginding speed in this case stoud be kept at 270 to 200 kW/hr.

Cautions: 1, erform forced leading with the Locing gree retucted only on neturel. Perform forced leading with the Locing gree retucted only on neturel performs the treathern of fuel concrets or noted Tunway leads to
a provide the treathern of fuel concrets or noted Tunway leads to
a provide the treathern of fuel concrets or noted piping.

The provided treathern of the fuel concrets of the provided the fuel performs the seet pair.

the seat pan.

30. In case of forced landing on unfriendly territory, the pilot about destroy
the transitive receiver of the aircraft transponder, for which purpose he should
press the destruction button (the red large on the destruction control panel will come
on) and take necessary measures for destroying the aircraft.

INADIES CETS TED MINE ENCASERED FILINGION ASSOCIAMES

MADING CLER AND PLANE ENGAGEROT EXTENDED PROCESSES.

369. If the sain extension system fails to extend the leading cear, the pilot respect to the gene concepts of states of the leading cear, the pilot proceed as follows:

(a) put the landing cear control lower in the neutral position;

(b) pull the right-thand city for smorphory disenses control to he nonewheel and control lower in the control position;

(c) pull the intrinsical city for disenses, and the season of the nonewheel and control the intrinsical city of disenses, and the season of the locks (the marines have cone of the locks (the marines have cone of the locks (the marines have about go out selectly).

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(e) set the lending gear control lever for extension;
(f) open the landing gear energemy air bottle velve on the cocrpit right-band

parely

(g) check the lasting year extention and strate locking by the saming laste and (6) names up amount on the man and a second state of the flight and outling off the engine.

Caution. Do not retrart the landing gear in flight after emergency extension of landing gear.

ARDING gear.

Should the such and energoncy extension systems fail to extend landing gear, land sirreraft only on an sumilary unpayed runsy.

300. For energoncy extension of flaps, proceed or follows:
(a) shift the flap control lever all the say down (55°);
(b) open the flaps energoncy air cottle valve on the right-hand panel of the motor.

cochpits
(e) check the extension of flaps (by the varning lamp on the left-hand parel and
by the sechandeal indicator on the left-hand wing);
(d) close the flap extension energency valve after accomplishing the flight and
outling off the engine.

PROCESSIAS ON ENCOUNTERING FUEL PRESSURE DROP AFTER FIRST TANK PORP

PROCESSES OF ENCOURAGING FROM PRESSURE COOP AFTER FIRST TANK PROP

391. If the lamp of the fred pressure variety unit has firshed up during the
filight, check if the circuit travers of the booster electric peop is cut in.

If the booster peap is cut only, which on its circuit breaker non figing at an
elititate of less than 5000 s, without changing the option rating, and while flying at
a clittude of 9,000 and above, first the nagine speed at 10,000 r.p.s. and, then,
cut in the circuit breaker of the booster purp.

392. Do not fly the aircraft at altitudes alove 9000 m with the fuel pressure
surving unit leap burning.

PROCEDURE OF ENCOUPTERING ENGINE PIRE

393. The indications of fire in the engine some are:

 (a) burning of the red varning loop on the left-band gamel;
 (b) acoke strip behind the aircraft tell, rhich can be easily detected during

(c) probable increase of exhaust gas temperature and presence of smoke inside

for clibing:

(2) press the extinguisher starting button.

195. Ehould scoie get into the cockpit, close air cliution on the oxygen regulator, uppressuries the occipit and cut in the wentilation.

196. After the fire has been stopped, do not start the engine in flight and lend the aircraft with the engine out off.

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PROCESURE OF ENGLEW PRINT SENS-AFOR PATELLINE

397. The failure of rescretor in flight can be detected by the burning of red warring kep and by the ameter residings the instrument pointer reads serv.

393. If the greater fails when flying in clouds or during a night flight, to the followings.

393. If the encenter fails when flying in clouds or during a night fright, to the following:

(a) when flying at altitudes be're 9000 a, switch on the radio attain receive, (a) when flying at altitudes be're 9000 a, switch on the radio attain receiver, incorporation, recibe green, outlined to the control instruction, problem of the control instruction, flower attained the control instruction of the consumer attained above 2001 a, engage the booster fuel pusp in attain to the consumer attained above. The pusp about he cut off after the struction to the consumer attained above. The pusp about he cut off after the struct has descended below 9000 at a standard 900

luny.

39. With the generator failing soi the communers fed from the simmers taking in accordance with the procedure discussed in Euro 198 , the sefe flying time of the simmers up in to 22 minutes for day and night flights.

Mont. The above safe flight lights are given for battery 12 CAM-25 busine November capacity, provided the battery has been used for one engine starting.

Mote, the above ande flight lists are given for battery 12 CAN-75 batter, large controlling to the battery has been used for one engine stretch.

It, with the generator failing in flight, all the power supply commons are on its, the flight time within the flight, all the power supply commons are on its, the flight time within the strength battery complete discherge are the failure of ratio street, and the flight of the

RECENTERS ON SECURITIES IN SPACES CHARGE IN ATTORS

ANOTHER OF ENCIONEERS INCIDENT SPEED INCOME BY MIGHT

403. With the angles considereding during take-off (in the process of the take-off and take process of the take-off and take presures to applify stop to storests.

Ge. Af the regime speed drops in flight at an altitude of up to 2000 m, cut is
the isolating valve without changing the engine rating. At altitudes above 3000 m

aifs the engine control lever to the Miling rating position, before custing off the implified valve. Bith the implified valve cut in, set the required engine rating by good and slow sovement of the engine control lever.

Fore. Then figure at high claiming, with the isolating valve and in, the angles speed rates are lively to surred the permissible insitus intereface, which the engine speed and, if necessary, decelerate the engine by retarding the angles control lever.

405. Engine speed drop, involving evitaning-on of the isolating valve, testiff to a serious defect in the fuel plane. If this is the case, discontinue the flight and lack the aircraft on the sain or alternate airfield.
Out off the isolating valve circuit breaker only after landing.

``...**`**`

PROCEDURE OR ENCOUNTERING ALLERON BOOKTER PAILURE

406. The alleron booster failure to recognized by great alleron forces on the control stick and by booster system pressure gauge remings(the pressure cryps to service the alleron booster fails to operate, cut it off with the help of the control operate.

Jerel flight with the alleron booster cut off is eafe. However, the leading of air corfs with the alleron booster cut off requires higher attention on the part of the pi-let to allernaft flying due to considerable growth of alleron forces on the control which.

Caution. Do not practice confidence and aerobatic maneuvers if the eileren booster is uncerviceable.

PROCEDURE ON ENCOUNTERING ICE PORMATION

FROCESURE OF SCIENTIFIED IOF PREMATICS

ACT. In all cases of ice formation the pilot smould check whether the bester of
the main pitot-static tube and compressor, pitot tube ID-196 is cut in and about sake
proper use of the element anti-loing system. In case of los formation during system,
clind pecsatration, cut in the muni-loing system level fitting their taking the satcast above the cloud top. During disward cloud penetration, do not change the fligh
saticule, use the anti-loing system down to maintude of 1000 a and finally recors
the ice crust from the encopy wischalied in level flight after the sirrerist has come
blow the cloud base.

If the wisdehild is covered with ice stem practicing clouds by a group of sircref.

bolise the cloud base.

If the windshield is covered with ice when genetrating clouds by a group of aircraft, remove the ice chust before the group esseebly. If a group of sirrart sets into the icing zone, the group leader should take necessary measures to here the icing sets only with the aircraft gets used by the pinton, he same spaces the strup laterally at each intervals to ensure safety of flight.

Out in the anti-cloud device intermitteathy by 1 to 5-seconds pulses as 70 to 5-second intervals, with sintour consumption of fluid before snountering the essay and prior to laxing the aircraft after accomplishing the flight at selon.

For better reneval of ice crust, increase, if possible, the indicated aircraft after accomplishing the flight at selon.

No before a reduce aluttuies, and the true singued up to dot make at high altituies.

CANCEL PROTESCE AND EMPORICE PROTESCES

400, the winding proclime is the most reliable method to stenden the stranger to emergency. The ejection is east both at high flying eyests and at various statisties of the attention in space.

409, All the increases and notions of the "print abould be provided on the ground.

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to perfection. The pilot should be able to find by finger feel the ejection system firing sockanion lever (face screen).

470. To shouldn the sincest equipped with the ejection sent, whose firing sechanism is actuated only from the levers located on the sent arm rests, proceed as follows:

(a) charge the aircraft to level flight, if possible, and reduce the speed;
(b) take the toes off the pedals and put the feet on the start from rating (c) less tightly against the sest bank, press the head against the head juite and lock the star humes; and lock the star humes; and lock the star humes; the same provided the campy fertison lever all the say forwards the campy jettison sechanism sakes it possible to jettison the campy provided provided provided provided cockpit at any speed;

Sets. If the example exists a start of the pressurized and the unpressurized for the camp start of the camp start of the start of the

Sote. If the emopy failed to jutilson after punhing the encopy jetticon lever, the plint can drop it by pressing with the thumbs of both bank against the tall sections of the lock control levers, having first unpressured the cockpit.

concept.

(a) hake true the entopy is jettleound, rest the feet against the seat foot rests, and the hands - arainst the seat are rests, without bending the erus in the above, then, press the hands tightly to the body, without lifting the lower back from the parachest years, steals muscles and close the eyes and south;

(f) without changing the posture, press the firing lever with the fingers of the right hand.

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the firing mechanism head which is corrected with the militing book, for which purposes pail the hook (ring) located on the left wide of the head rest plate and eject through the except value for each of the server.

(a) After the ejection, proceed as follows:

(a) free yourself from the rest 1.5 records after the ejection by pushing the sent rest with the hould and feet, then fig first made sure that the set harness is unlocked by the Al-3 mechanism;

(b) if the sent harness lock has not been released by the 47-3 mechanism, open to lock amountly 1.5 - 2 mechanism after the spectrum and clear the sent.

4th. Thus the ejection three plane at militudes below 500 m, immediately open the preclute after clearing the west by pulling the preclute religions. This ejecting at militudes above 500 m (up to the service column of the minimal) have failing until the purebule is released by the Millip paracture release control unit, which takes place as soon as the minimal paracture of a Hight alliquide believe that set on the instrument.

If the parachute does not open from the MAGHS parachute release control unit, open the parachute by pulling out the ring at an eltitude of minimum 500 m shows the

ground surface.
415. Frenever necessary to open the parachute at an altitude exceeding the alti-415. Tenners necessary to open the parachute at an attitude exceeding the sit tide ont on the XIM-3 percentur release outcut unit (intensity rotation with fall life, sharp ear pain, abandoning the aircraft over high ground), open the percebute 5 seconds after cleaning the cost but at an attitude of cut more than 900 w. 415. When ejection, at attitutes above 9000 w, open the percebute only after a Threscond delay por each thousand metres of elevation store 9000 w (Table 41).

. . . 1 . 11 13,000 10,000 11,000 12,00 13,000 Farachuta opening delay, 50

417. When wiscifing in condition of year ground wisibility (night flight in clouds), open the perachule annually in accordance with the instructions laid down in iters alls, 415.

PROCEDURE ON ENGOUNTERING OXCEPTS CHARGONIZING AT SIDE ADMITTUDES

FROMDURE ON MODORATIONS OWNERS TOWNSMERSEN AS SIZE ALTERNANCE AND PROPORTIONS OF THE PROPORTION OF THE PROPORTY OF THE PROPORTION OF THE PROPORTY OF THE PROPORTION OF THE PRO

Poor Origina

GETERAL

GENERAL

ACT. To reduce the forces on the control stick, the latest-make fighter Mainly is equipped with irrewrestile hydroulde boosters Bn-18 (operating on the irrewrestile cyrie) in the elevator and elleron control system.

The installation of an irrewrestile hydroulde booster in the elevator control system has considered in properties the control expense the interpretable hydroulde booster in the elevator control system elevator control expense yields the properties and interpretable high system and interpretable in the elevator with fines of the flight species, as conjugated to those on the Main-17 airc control engaged in the interpretable hydroulde boosters.

The employment of preservible hydroulde boosters.

The employment of preservible hydroulde boosters Bn-18 in the alleron control engaged in the latest controllability of the aircraft (qt high-species) but ellertify.

slightly.

Cl. Co alrowed optified with irreversible hydraulic boosters in the elevator and allerno court I system, all the accordance look caused by the elevator and allernos are corrided to the hydraulic boosters. The lattetion of forces on the control extends to accomplish by press of special spring-feel mechanisms in which the springs are compressed in the return to the deflection of the control stiffs and consequently of the car roll suffects, and forces are also set up-by the balance tab in case of Colonis.

Selected.

Its present the indication of the control stick, the larger the force to be spilled to the relice, fith nariam deflection (forward or backward) of the control stick, the force whiter (as sinceled on the ground) ascent to 9 - 10 kg. Than Octobe are built in it flacht for the represence of a balance tab for the election control system, it is increasing to epply militional forces to the control stick proportional to the charge of mind (u.e. kg per Globa must charge). Bith the control stick word all the say to the infat or to the left, the forces caused by the alleron spring-feel sechanism mass up 5 kg.

cf. Mired (0.0 kg per 5-load unit change): sixt was allowed spring-feel mechanism mass the tight or to the left, the forces cause by the allowed spring-feel mechanism mass up 5 kg.

The should bear in sind that the power of the elevator bouster is sufficient for the control of secondarial loads from the elevator in almost any flight extrated, whereas the power of the allowed booster in occitions of superconds flying speeds (at an altitude of 500 m and below) proves increditions, which results in an intensive increasers of the secondarial proves required for deflocting the subservant in the above flight activation.

Due to the pressure of a spring-feel mechanism in the elevator control system, the cratical state is fixed longitudinally in a press position, with the hydraulle system only by applying some effort to it. This position of the output since an analysis of the secondarial state is returned at the Egh47 attracts equipped with inversarial explanation that have been applied of the Egh47 attracts equipped with inversarial systematic boosters.

The forces applied to the control attack by the spring of the elevator spring-feel mechanism can be trimed in filling by the triming effect elevator section which is controlled by a pressure than elevator retries (as the elevator trin tab on the Wid-II standard on.)

The forces applied to the control attack can be completely removed by the trimes and control on.

Orthodon.

The forces applied to the control stick can be completely removed by the trib-

ming effect electric mechanism in a flight attitude corresponding to elevator deflec-

of maximum ±50. With the triaming effect electric mechanism set at zero, the control stick is

with the training error alcourts sector in each of sore, the control etter is fixed by the spring-feel sechatics in the resurts position, and the elevator fris tab surring lamp lights up.

a22. The piloting of the sirvest with interservible hydraulic bosters in the elevator control system, at low slittudes and high initiated strope-day lawdinning with gook knift and always, requires of the pilot smooth novement of the elevator postured and firm bablits in piloting technique, alone owing to the nigh efficiency of the control surfaces at high indicated airspeeds, short but energets pulling of the control etter, leads to aharp increase of the imple of struck and roberport slight but brise youing of the control stick remains in considerable sequite G-locals.

Flying the aircraft at high indicated airspeeds by feeling the force on the control stick may result in exceptively high positive or negative G-load and wing-to-ming

rel stick may tense an account religion of the pilot should fix the control stick in the position at which the pitching has started, decrease the speed and assume the required flight attitude.

Als, Out off the elevator booster by the charge-over switch located on the left-

hand control panel of the corkpit.

And control panel of the corkpit.

And control panel of the corkpit.

And control panel of the corkpit.

If the booster hydrealic system fells to operate, or if the elevator booster is cut off by the change-once existed boosted on the left-then control panel, the system feel mechanism gets autosatically matched off and the elevator serodynatic trim the is watched on instead, the latter being controlled by the pressure charge-over seriate of the elevator trim tab. In this case, the sirveth breaker of the alterna and elevator trim tabs on the right-hand control yarel of the cockpit should slao be cut in.

PRE-PLITHE CHOCK OF HYDRAULIC BOOSTERS

A26. After starting the engine, thek pressure in the booster hydraulic system, which abould be from 60 - 65 to 80 - 85 by/sq.c.t.

A27. Check the sileron control (with the hydraulic booster switched on or off) in the sum order as on the Vall'4 adverte not equipped with irreversible boosters.

A29. Cut in the sileron and elevator tria tab direct breaker on the right-hand electric panel of the compute set the elevator test to be the SyrBall (ENTPHING) position as on the E21-V7 airrest too equipped with irreversible hydraulic boosters. Cut off the elevator becade by the change-over switch located on the scapt; left-hand panel and use the pressure change-over switch hose store and the starting tria tab in the NNUTAL position after which the signal long bould light up.

A29. Check the sirver control with the hydraulic booster cut off (the change-way existed on the cookpit left-hand panel is out off), at the scenar the control stick is soved forward or beckward, the pilot should feel only the forces caused by frieties in this cases, the spring-free leachand is authoritively cut off from the control in this case, the spring-free leachand is authoritively cut off from the control system.

Considerable forces on the control sick during the check testify to the spring-

eyatom.

Considerable forces on the control stick during the check testify to the springfiel mechanism energing and disorgasing cylinder being defective or to the PL-74
footnor cut-off hydreulic valve being out of order.

\$30. Out is the electron becater by the change-wer switch sounted on the cockpit
\$31. One has detect once and recourses of the electror costrol, with the costleft-hand penel and check once and recourses of the electror costrol, with the costrel wick deficated forward or batterior, the filts should feel monatderable forces,
rel wick deficient of the change are the costrol position.

**All Check the operation of the trimning effect electric mechanism, with the

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elevator booster cut in (the circuit breaker of the alleron and elevator tria tabe is waithful on), in the following accesses: (a) set the elevator trin tab pressure charge-over switch in the Pirodom (MAD-PROCAMEN) position until the trianing effect electric mechanism is out in completal; as a result, the control stick abould here backward (the elevator should defined; of unb.

y up; (b) set the pressure change-over switch in the PITCHCOT (INKITCHESS) position until the triming effect electric methatin is cut in completely. As a result, the control state should now formed (the cluster should deflect 5° down); (c) use the elevator trim tab pressure changed over switch to east the control state date consequently the cluster) in the neutral position, after which the elevator trim tab lamp should light up.

A32. Take-off in the MaT-17 streast equipped with irreversible hydraulio beature does not differ from that purioned in the MaT-17 streast without irreversible hydraulic because, except for the fact that the plot feels more condisorable pulling forces on the control stick. For raise the mose wheel, the plot should pull the control stick with an effort of about 6 to 8 kg (since the def)settion of elevator during the take-off makes up about 3/3 of its full upsend deflection). These forces remain practically unaltered until the sircust clears the ground.

GIMS

433. The climbing attitude of the atterant equipped with hydraulio boosters is the sace as on the alterant without hydraulio boosters. After unsaticking, when accelerating the afternate with the trianing effect electric mechanism in the neutral position (the signal leap burns), the pulling forces electron suchanism in the neutral position (the signal leap burns), the pulling forces exceeded the increase of speed, collaboration at a speed of 600 ± 50 ke/mr.

Glimb the increase of the discussion differentian required with the electrod interest and the position of the increase of the discussion differentian required with the selection district the service of the pulling of the electron trial to change-over metch. However, to resort the force from the control stick in climbing, they will not be resort to the free from the control stick in climbing, they will not be resort to the free from the control stick in climbing over 1000 – 1500 s) than to the results be control stick will gradually an also be accomplicted without changing the position of the trinsing effect electric mechanism, but in the latter case the pulling forces on the control 15,000 s.

4)4. In a straight filed (level or descending), the forces on the control stick, with the triming effect electric methods in the neutral position, increase with the increase of the flying speed sensors of 600 months; the increase of the flying speed sensors of 600 months; the increase of the flying speed sensors of the force in the increase of the flying speed speeds the control stick forces in the district squipped with increases in flying speeds and the flying the value of the present, at autisms flying speeds gained during straight flight the value of the present forces for not exceed 10 Mg.

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Then flying level, the forces on the control stick may be trianed by the trim-effect electric mechanism practicelly throughout the Aposl and skittnie rungs.

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PLICET MUSCURES

Hits Minerals

435. In aircraft equipped with irreversible hydreulic boosters flight materiers
are performed with the tribering effect elements as bearing in the metical position
(the elevator tria tab signal has borned).
The posultarity of flying technique in the fif-ft element equipped with irreversible hydraulic boosters in the increase of pulling forces on the control sites,
with the decrease of the flying spord in the process of accounting flight management.

Irregular change of forces on the control sites, dependent on the intermetedatio of the spring of the spring-feel mechanism, allightly complicates plicating as compared to the Kal-ft siteraft (not springed with increasable hydraulic boosters.

RANKED TURN AND SPIRAL

MEED THEN AND SPHAL

436. The flying technique of the banked turn and spirel in the sincreft equipped
with irreversible hydracile booters has practicelly resulted understand, except for
the fact that lenser forces are quiete for building up G-load.
The presence of an irreversible elevator boosers makes it possible to obtain the
seximal percinsible G-load there shall be without on started at elevation above 6000 m, m,
y deflecting the control return the without on started at elevation above 6000 m, as a started at elevation above 6000 m, as it is present as pend for filling farred, on
read by the indicator that pointer, exceeds 1000 m/m; the clavator efficiency
minutes, which results in an increase of the control state deflection required for
performing the filling manufer. The integrate of the return intel danienter may be
accompanied by an increase of forces on the control state the instance may be
impufficient power of the elevator boater at the above ratings.

CHANDELLE

CHANGELE

437. With the aircraft energetically brought into the chandelle at any possible flying speed, the pulling forces on the coursel stack are less than in the director of explosed with irreversible hydraulic boosters (the forces do not watched). It has been been forced, the control otice pulling forces slightly decrease. However, at the end of the chandelle they slightly increase again to 6 - 8 kg due to the fact that the disclosuration of the elevator increase, also necessing the top of the flight suneway, the causing a respective increase of forces as a secoult of the compression of the eping in the apring-feel sections.

· MORRAL LOOP AND EALP-ICED *

438. Then performing a normal loop and half-loop in the Kuf-17 structure endapped that increases the highest school of the control stick, when a promoting the typ of the nancourse, particular towards up to 7 - 10 kg, since, with the speed decreased, the clerator deflocation order small be according increased.

Intraceod.

If the pulling forces on the commod such are indufficient, it way result in a loss of speed when scaring the top of the flight naturates.



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- 82 -PATE-POLL

agg. The figure technique of half-rolls in the MaT-17 aircraft equipped with

asy, the figure technique of half-rolls in the End -17 aircraft equipped with irrevariable hydraulic bookers is the same on in the Mail-rd sincert only profit with the above bookers. The forces on the control stick, when recovering from the half-roll, to not exceed 6.—12 kg.

40. The half-roll, with the aircraft brought into the manuscraft extend law is flight speak, in allowed at all altitudes specified for the Mail-rd aircraft ent equipped with irrevariable by fracile bootters. The aircraft gains practically as same flying speaks as the Mail-rd aircraft not equipped with irrevariable hydraulic bootters.

pulling forces on the control stick, while executing half-rolls, do not ex-

VESTICAL DIVE

441. The vertical dire in the ENT-17 alrereft mounting irreversible hydraulic boosters, with the aircreft brought into the dive from maximum level flight speed, is allowed from the same altitudes as in the MaI-17 electroft not equipped with irrever-sible hydraulic boosters.

which symmetric bootsers,

"Bring the afrorest into the vertical cire from maximum level flight speen by
steerning the half-roll. Thile rolling the alteraft to the whosle-up position, pull
the engine occurred lower all the say lost.

After the alteraft has reached a diving angle of 50°, sowe the control stick fall
formand.

After the allocate has reached a paying major value. From the formand, the an allocated of 10,000 - 900 at a gained, with the control stick month formand, the advocate has a fundancy to change the dive angle bowards angulate divining and with further decrease of allocate to tends to pull out, while the pressing forces on the control stick increase at the vertical dive section and may assure to the control stick increase at the vertical dive section and may assure to

inc, and with number uncommon and the vertical dive section and may around to force on the control stack increase at the vertical dive section and may around to be.

Start proceeding the aircraft at an attitude of stocked 6000 m (so read by the altimater) in such a way as to pull it out level at an electual color who to 5000 m. This recovering the aircraft from the vertical dive, the pulling forces on the control stick do not exceed to - 42 kg.

In case of late proceeding the work of the vertical dive with the speed brakes retracted, when the aircraft thousand is likely active to the recover from the work of the color stack aircraft thousand is likely active to the received aircraft thousand as the interest thousand the pulling and the sticked section speed (as read by this pointer) of 1300 - 1300 km/hr in gained on the way the sections level flight speed from an attitude of the color and the strike actions level flight speed from an attitude of 1,000 m with the speed when strike sections level flight speed from an attitude of 1,000 m with the speed when the further diving the speed started decreasing.

POTER-ON DIVE WITH RECEIVE BUTTE AT COMPAN RATING

AND. The power-on GIVE WITH MUSIES MUSIES AT COMPAT PATING

AND. The power-on dive of the aircraft with the engine running at contact rating
and the spend brakes retreated, when the aircraft is brought into the dive from a
straight flight, may be performed ut any spend up to the maximum level flight spend,
Then extraight the dress is the maximum level flight spend, the control stief any
be worsed all the may forward (up to the stop).

With the stick moved all the way forward, when convering the dive at the scalard

level flight speed from an allitude of 12,000 to 16,000 m, the sirrors reache a certain dive angle not in excess of 50° relative to the bettom. While diving from hower electroses, the dive active speed as 25 to 50° than the direction of 5000 m. Then being the altitude of 5000 m. Then bringing the altitude of 5000 m. Boothly some the control sector ward. Emergetic peak of the control select has a section of the pilot is inadequately tied to the east, he may strike his hald against the compit cannot.

campy,

A3). In the process of the dive execution, the pressing forces on the control
stick, with the latter pushed all the way former, do not extend 10 kg. However, when
diving from an elitative of 12,000 to 14,000 m, the forces in the control withs increase up to 20 - 25 kg at an elitative of 5000 to 6000 m due to immediatelest power of the elevator booster.

In this case, the deflection of elevator is decreased and the sircraft itself

In this case, the deflection of elevator is decreased and the circurst itself gradually decreases the dire made.

A44. Then diving with the engine running at coaber rating, the aircraft gains the maximum speed when the dire is entered from a straight filight at a maximum level filight speed from an airtitude of 14,000 s.

In the latter case, the flying speed (as read by the thin pointer) reaches 1300 - 1300 halfor at an airtitude of 5000 to 5000 s due to delay in transmitting static pressure to the sread indirector.

The actual speed of the aircraft, in this care, does not exceed the maximum per-

The actual opens or the aurents, as and analysis of the actual state one. Since the flying speed in diving at 50° and lesser dive ingles, with the aircraft brought into the dive from a strength flight as maximum level flight specia, was not exceed the permissible speeds specified for the aircraft, the pilot flying at altitudes above 3000 m may not witch the speed indicator but will only check the aircraft.

takes above 3000 m may not with the special not make and the many times are many receilings.

45. Shile diving at altitudes below 3000 m, the pilot abuild watch the speed indicator as in case of the KuT-17 directed to equipped with irreversible hydracilla boosters, and should not exceed the auximus particulable indicated starged of 1000 hm/hr (so read by the indicator thick printer), specific for these altitudes.

PLYING WITH SYDRAULIC BOOMERS COT-CFF

FIRST SITE STREAMING SCORES CON-CFT

466. Flying (take-off, luming and piloting) with a cot-off elevator booster

differs from that in the MaI-17 elevant on provided with irreverable hydroutin

boosters by slightly increased forces on the control stick in all flight statistics,

sich are due to friction in the booster piatos and in the elevator control system

Jointa, Booldes, in flights invilving G-loads, it is necessary to apply shiftional

forces to the control state, proportionate to the change of G-load (0.8 xp or G-mail);

owing to the presence of a balance tablis the elevantor control system.

With the sileron irreversible booster out off, the controllability of the aircraft

does not differ from that of the MaI-17 elevant with out off reversible hydroules

booster.

***PLOST WIRE EVENUENCE SOURCE STATEM FAILSD**

447. If the hydraulic blooter system fails, out off the boosters (using the change-over switch on the laft-band panel for couting off the silvator, and the Talva for cutting off the silvator, and the Talva for cutting off the silvator, and the Talva for cutting off the silvator.

The aircraft whould be believed by the elevator and elleres serodynato tria tabs as in case of the EXT-IP attracts not equipped with irreversible hydralite booster.

hydraulie booster.

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as, the specific feature of the siturati in landing is the increased pulling forces on the pourod ettak, which around to 6-7 kg, since the upward sormest of the ejecutor increases with the speak decrease, along with the proportionate inproperties of the forces imposed by the complession of the spring in the spring-feel sechanism. LA:-0130

I. PECULIARITIES OF CERTANICS AND PLITTED TACHWILLIE OF AIRCRAFT MAT-17-R

I. INCLUDITES OF CHARGE AD PILLS FRONTING OF ARREST MATTER 19.

39. The MATTER elevant is a modification of the production elevant Matter from its mining in that the MATTER increase a reder eight which essenses the performance of testional desions in the daytice in adverse weather conditions.

400. Check the sixtest and origine before fillest in the sequence laid down for the MATTER ADVENTURE AND ADVENTURE AND ADVENTURE AND ADVENTURE ADVENTURE AND ADVENTURE ADVENTURE AND ADVENTURE AND ADVENTURE ADVENTURE AND ADVENTURE ADVENTURE AND ADVENTURE AND ADVENTURE ADVENTURE ADVENTURE ADVENTUR

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451. The pilot checks the operation of the redar sight on the ground in the relating cases:

(2) after elimination of faults detected in the sight during the previous flight (b) then the flight has been preceded by 400-hour scheduled seintenance involving the recoral of the sight sain units from the aircraft.

In all other cases, the pilot checks the aircraft.

In all other cases, the pilot checks the aircraft,

(a) sake errs the BU - RIGHT (RNIS - ROID) change-over switch located on the cable bur of the fundings mass upper by its set to the respective positions (b) the sum the ordered poser unit is connected to the aircraft sained (c) aske certain the STATCH-PR (CRAIR) - ERRIA, change-over switch located on the control cast is placed in the CTP (RMIS - BRIA), change-over switch lensed on the control cast is placed in the CTP (RMIS - BRIA), change-over switch lensed on the control cast is placed in the CTP (RMIS - BRIA), change-over switch lensed on the control cast is placed in the CTP (RMIS - BRIA), change-over switch lensed on the strenge left-band position (trightness is cut).

ASJ, to check the radar sight for proper functioning, the pilot abould proceed as follows:

the extrem letthand position (tragatumes as out).

33), to check the radar sight for groper functioning, the pilot should proceed as follows:

(a) writch me the sight; two—three minutes after switching, a rester, background follows:

(b) object the selectronic grob fortion affects on the initicator scopes of the selectronic grob fortion affects and lines of the electronic grob fortion affects on the selectronic grob fortion affects on the selectronic grob fortion affects of the selectronic grob fortion affects of the selectronic grob fortion as well but 5 - 6 kg. The histoground coins should start as range of 0.2 kg and its upper boundary about be restricted by a sone of 0.0 on both after of the satisfact restricted by a sone of 0.0 on both after of the satisfact according to the sight establed on, the instruction position of the sight establed on, the instruction position on the control desk should first castificate states of the satisfact of the satisfact and the states of 200, the part establishing of an instruction for the satisfact of the

(4) check the exerction of the rater might stating ent by presting the SEC (SUMPULE) push-batton, with the alghting unit functioning properly, the following

- a target pip hering the hope of a torizonal index-line, with a locate trace under it in the shope of a cripit line, appear to the indicator stope at a rathe of the sighting cone square totally to the right and stope at the right property of the sighting cone square.

6.00 m; the target ply move crottally to the right and stopp at the right oversions of the sighting rose square;

- a light criticish target have shown prightness increases with its reversion right upwards from the initial position, appears on the cata transmission with refrictor. The discussions of the criticish target large threads to a size corresponding to a range of 600 m;

- after relevance the ChAT push-tution, the artificial target large retains its discussions and brightness within one second mai, then returns to the initial position, decreased its size and brightness.

Raving made ware that the rodar cight functions properly, set it in the OFF position.

of RELACTION OF RELACTION IN PURPLY

454. The relact of the settless of unit cheesed in Clipht in the same sequence

OFFIGURE OF NAMES COMES AND CONTROL OF STATES OF STATES OF STATES OF NAMES CONTROL OF STATES OF

PROGRAMINE OF PLANS TRUSTED .

457. All the flight elecants are performed in the Myl-Tid strength eccording to the requirement of the present instructions, with allowance node for the specific features, which are characterized by:

(a) increased flying weight of the MG-17m sinuraft (by 200 kg) as compared to that of the Mil-17m aircraft;

(b) poor field of vision through the front benisphere owing to the instabilition of the sight units on it;

(c) necessity to pay extention not only to instrucent flying but also to operating the strength of the sight canning indirector through the obscuring tube shound flying to the dayling;

(d) need for watching the suppleases of the sight canning indirector through the obscuring tube shown flying to the dayling;

(e) change in layout of flight internation on the instrument gazel and of size sufficient to the couplity.

(e) change in aspect of fitting and continue of in the cockpits (f) installation of landing gear sheels with more officient which brokes.



SECRET/NO FOREIGN DISSEM

ass, the peculiarity of tax-out in the MaT-172 alterant to the poor field of sisina through the front similarity of the codifit campy frace. Sendend, due to the
sina through the front similarity of the most best install the reason of the test of
firm at a speed of the 200 taken with a altern the reason of the unset of
firm at a speed of the 200 taken with a altern the reason of the unset of
ecosymenty, of the taken-off row and distance. The figure technique of the MaT-17s
electric to no different from that of the MaT-17 electric technique of the MaT-17s
fit the taken-off is preferred with the fight beared to the taken-off position,
if the taken-off is preferred with the fight beared to the taken-off position,
if the claiming in the MaT-17 electric to accomplished at the same speeds and
applies ratings as in the MaT-17 electric to the occupied for electric the the fight position,
increase is alightly increased as compared to that of production electraty MaT-17
(comparative data are laid dawn in the appendix). The certain ceiling of the electric
is 18,000.

is 18,500 m.

460. The piloting technique in level flight has no popular features. The maxima form that the second section level flight speeds are undershalled for the Main-17 eleverity while the maximum level flight speeds are undershalled (the speed values are presented to the time registed to the students of the speed values are presented to the speed up the attractify, with the engine running at 1,500 region, is characterized by the data given in Table 10.

7 a b 1 s 12

Cine (in espenia) Comined to Academic Miserita mich Rodine Comine at 11 500 Februar

True aircport range, am/hr		Altitude, 7	
Prop. 210	10.10	240	1 41/4
Pros 600 to 700			10,000
700 to aco	1 G	21	
. מכף סו מים חייים	10.5	22	-
Pros 500 to 1000	11.5	1	36
	,	23	39
462. Mircraft deceleration in	-	1 - 1	1,2

M.2. Alternate deceleration, by only decreasing the engine speed to idle rating or by decreasing the engine speed down to the idling rating with simultaneous extension of the speed links, is connected by the data indicated in Table 13.

Tire (in accounts) Promined to Developme Afterests by Describe Spring front Count to 1919 Rating with Speed Spring Promined

rue airspeel range, km/hr		Altit	d or Retrac				87940 1843 to 30
	with speed	with speed	50		10,000		40%
		0,000	with speed reduced	with speci returned and speci brokes op- plied	cless closed re- ducest	with speed reduced end speed brokes	frens (afte:
-1 1000 to 900	-				:	applied g	•
	. 1	1	-	SECRET/N	O: FO	REIGN DI	normal SCEMPEROS

- 1 7004 900 to 800 7003 900 to 900 7002 900 to 600

•:----50X1-HUM

47%. In case of funed inding on natural ground, in addition to the procedure normally used in the FeF-17 elements; the plat of held extend the normalization which

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 (a) disengage the landing gear no e whilethe cockpin floor, to the right of the aircreft e control (b) check by the mechanical indicator and amount from the lock. willing the aneakle on the s if the none wheel has

PROPERTY OF PROPERTY OF AN

A77. The peculiarities of piloting the United in a creating the target on this constitution in account of the constitution of

on seminating, epyroach, as well as the sefery fraintne Aid for Ty-H. PARTIABLIES OF COM-TORREST OF A STATE OF

INSPECTION OF ASPECTANT and Ermine the aircraft in the requests build down for the Fall-Paircraft.

Beidge that, the silot should:

(a) rate sure that so foreign matter, down so reconsidetion of fuel is observed in the testale and afterburger;

Total When turning the engine rates from the electric starter, with the becefur four purpose, and another the factor of the afterburner, as well as afterburner just its colorated, along leaking of fuel through the (a) examine the retractable come and there of the engine adjustable norse for

(a) remains the retractable come and fleps of the entire adjustable morals for deals and decremation.

This savelings the aircreft, the retractable come of the engine jet morals any field savelings the aircreft, the retractable come of the engine jet morals any it can remain in the form position.

It can remain to the rear position after the pre-flight check of the efterbirmer flow starting to indifficient pressure in the hydraulic accumulates required to the aircreft pressure in the hydraulic accumulates, rectair morals come about to 10 the front pressure at up in the hydraulic system, the retrievable and the south of the form that?

(a) the first ATTHEMENT COPILE MINISTRATION COPILED COPILED (1997), calculated to 10 the ATTHEMENT ATTHEMENT (1997) and the first the first press and the control of the companyone ariset being not in the FORMAN CIRCLETT, and control control from the control form position of the coping control from the control layer to the coping and coping an

each the statistic and testing procedure of satiste, solel px-10, is uinitar to that all, before statistic that each procedure of satiste, solel px-10, is uinitar to that ASI. Before statistic the satistic testing the satistic testing the satistic partial procedure of the affirmment leading activities the satistic testing testing the satistic testing testing the satistic testing testing the satistic testing testing the following testing the satistic testing testing the satistic testing testing the satistic testing testin

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fuel to the burners). Spacing between the efectives of the afterturar oper plan, visible through the adjustable noisie, testifies to the proper condition of the after-burner ignition system.

Shall theorem a clicking round of the adjustable noisie door control sicurcoagnetic valve should be heard, indicating that the valve is in a proper condition.

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Patter the attachment system may be cherked for proper formations.

First, The attachment system may be cherked for proper formationing also at a

Fresours of some than 75 monotopic in the hybrid system. A present of less
than 75 ke/sque as a proper formation of the simulation contains a time
to olitops satisfy. Therefore, if the simulation of the property of the
a thought the system of the simulation of the simulation of the present of the
contains the simulation of the simulation of the simulation of the
simulation of the simu

to mere the Systems of a tensurer (gained system make.

Add. Check the affecturar conjuncy out-off circuit treater for proper fan tilding, for which purpose exists on the AFTER-NEW MERSHOOT CH-OTT circuit breaker and
should be not make a clitting sound is board when operating the afterburer energy a cut-off solesoid located on the lower feel pump (file that) of the afterburers proper Checking over, and the AFTER-NEW MERSHOOT CTT-OTT circuit breaker in the CTT posts

chem, cathodic soleoid located on the sole.

Cacking over, set the ATTERMENTE EXCEPTION ON-OFF circuit securities.

48). Before swarting the engine, cut in the engine afterburner circuit trewer the Art-hand electric pasel and keep it satisfied on during the wisle flight, irrespective of whither the aftersument in turned one off.

48). The ATTERMENTA MERSON CUT-CFF circuit breaker should be exitted on.

Cantions: 1. Do not onlift the engine control leves before the sighte gains the

ASA. The APTERNOON DEPOSITE CONTROL between about the extitute on.

Zertions: 1. Do not shift the engine cratted lever before the argine gains the

Later of the cratter extends a beary flase care of the attendance

norsile all ever the cross-action of short flase care of the attendance

APT-that Afterbarmer food districtive platformering in thinteen that the

OFFICE of system, by nontinear the attendance of the first for a survey of

APT-thinteen circuit because the article of the control of the care of the care position and, attendance of the

APT-thinteen circuit because the article of the form of the control of the control of the control of the care of the c

will only intensify the firms.

ASS. After starting the extens, with a pressure in the sireroft hydraulic system being mintum 75 kg/sq:ca sed the engine running at 7000 to 6000 r.p.m., where the operation of the adjustable routle by cutting in or out the Soliciz GPEN(CORIO OTRADIO) thange-over switch.

After cutting off the NODIZ CITA change-over switch, take sure the adjustable Social is in the CHORD (GRAPHO) position.

OURSELLING OF ENGINE OR GROUND

ACCATING OF BODIES OF GROOM

486. On the ground the attendermen may be knownd on only when it is necessary to
check the operation of the afterburner may be knownd on only when it is necessary to
units. In this came, the time of explain operation at augmented rating should not encess
10 seconds each the problems of extrement foul about the text in enters of the Agington.
Follows testing the attendance, which satisfies the clocks are properly placed under
the structure twicels, estons, with the afterburner turned on, the engine throat on the
ground increases by 155.

307. Bith the temperature of an exhibit side being television.

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sing at maximum speed, the gas temperature behind the turtine may increase beyond the permitantile value (TOPO).

In the latter case, the engine rating to limited by the gas temperature and, to obtain the permitantile gas temperature, it is measurery to decelerate the entire of the latter case, the action of the precise originature elements the duration of regime continuous mus on the ground, with the adjustable mossle flags closed, whould not exceed 3 similars of the proper case the proper case the proper case the propers of the Mounth CFF charge-over switch in the CFF charge-over two forms the proper case they for which purpose not the Mounth CFF charge-over switch in the CFF case (ToPo by 30 - 100 and the engine clicum; will be believ the rated value.

4.2), It is unarisable to run the engine on the ground at maxima speed for more than 1 minutes.

than 1 minute.

490. Continuous engine run at tile rating should not exceed to aimites and the fragranuse of exhaust gases in this case should be not over 500°C.

A91. The maxima possibility rate of engine control leven nowment from the tite to the contain reting stop (without turning on the afterburner) chould not exceed 1-2 accounts. Full found any characterian overspeed by 25°C r.p.n.and gas overtray removes behind the turbine by not more than 50°°C are allowed.

The time required to macelerate the enviso to maximum speed should not exceed 15 mecones.

15 mesonds.

The reverse sorement of the engine control lever from the content to the idle rational may be effected within not less than 1.5 - 2 mesonds.

102. At we air temperature clove +15°C, the engine acceleration ground test may be acceptioned from a speed of not less than 5.00 m.p.s.

PECULIARDIES OF OPERADING MODIFE, VODEL EX-10, IS AIR DIRECT APTRACHMENT TRAING-OS

43). Then shifting the engine control lawer on the ground or at low altitudes, the change-over from sound control of the HE-DMA ymp to automatic control takes place monoticed (the engine control lawer) that it may be automate control takes place in the takes of the HE-DMA ymp to automatic control takes place in the presidence of the HE-DMA ymp to automatic control lawer that presidence is the takes and the engine speed on the control lawer should be a state of the engine speed on the change-over section generals uptiles control lawer shifted, the engine speed on the section of the engine speed in the section of the engine speed on the section of the engine speed in the section of the engine speed of the foreign of the engine control lawer corresponding to a ground feel of the control of the engine control lawer corresponding to a ground feel of the engine control lawer corresponding to the engine control lawer control lawer control lawer control lawer corresponding to the engine control lawer control lawer control lawer control lawer control l

ASSUMPTION DESCRIPTION TURNING AND GOT IN PLICES

455. The afternames will be subject on in flight at the engine auxilian oped by
antiting the engine country layer forward beyond the cober rating atop, thereby nations and auxiliarity will be sufficiently all the first principles of the afterthe afterbares is turned off prefitting the engine control less in the growth Note: Turning the afterburner on or off may result in short-time tend, as of the engine speed and good temperature behind the turbure.

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engine speed and just superior behind the vincine.

apply the afterburner can be turned on up to an altitude of 15,000 m.

apply the afterburner can be turned on up to an altitude of 15,000 m.

apply the afterburner canned on the right and increase, causing an increase of vertical climbing speeds, marked here! flight speeds and corvine retling and increase of vertical climbing speeds, and the simple of th

(%), at we assert to turn on the afterburner at the maximus crusing rating (%), (%) repail by continuous newment of the ergine control lever with a rate of sit with 1,5 seconds.

5.0. The afterburner starts operating 3 to 5 seconds after turning it on. The first control of the repair of the region through the second after turning it on. The sit will observe the first shared on the afterburner at altitudes being 1,000 m will result in page with the repair confidence of the afterburner at altitudes being 10,000 m will result in page with the repair confidence of the afterburner at letters after 0,000 m septembers of the extense page to increase by 10 to an office at altitudes above 0,000 m represently at let fights agreed, the running income of the Afterburner is accompanied for a short time of internative page and the society letter of the extense fit is operation of the afterburner should be chosen by the society of the second fit of the second of the operation and operation of the afterburner should be chosen by the society of the second of the operation of the afterburner should not exceed 7,000 m to an altitude of 45,000 m and 7,000 m. The naximum temperature of cases at tax-sect (cases) rating, with the afterburner should not exceed 7,000 m. The naximum temperature of cases at tax-sect (cases) represent the first fit of the fit of

				-	
fraine rating	Franks speed,	ins tespe-		011	
		hind the-	ju edilare. Go si ca	ten, gratu-	Time of con- tinuous c; e- ration
catat, with af	11,5% 100	700, as al-		Fres - 40	At altitudes up to
erturrer on				I camera	20 C * - mantana



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	1-3-		-	5	6
		above 14,000 s - 745		From -40 to +90	3 minutes; at al titude; above 7000 m - maximum 10 minutes
Combat, with afterburner off	11, (6) -100	720	1.4-3.5		In level flight at elititudes up to 10,000 s - sactions 6 shortes at etitudes above 10,000 n - maximum 10 minutes; in climbing - in climbing - in 0 minutes
Souinel .	11,200				60 minutes
erdeter Taleter	10,870			ļ	Unlimited
die rating a the round	25:04:00	54C	Wintara 0.2	.	Partous 10 minutes

50). With the increase of flight altitude, the first pressure in the afterburner considerably drops, four, at an elititude of 30.0 m, the two pressure in the afterburner considerably drops. Tour, at an elititude of 10.00 m the pressure of fuel in burner equals 50 to 8 ke/equent at an elititude of 10.00 m the pressure of fuel in the afterburner equals 10 to 15 ke/equent and at an elititude of 14.000 m the pressure of fuel in the afterburner produce the second is an elititude of 14.000 m the pressure of two fuels of alterburners produced the second is an elititude of the strong state which cannot be set to the second in a set for a threating open which cannot the charge of the eights speed without furning of the afterburner. The charge of the significance of the strong the second returning of the afterburner which is the second returner than the control level from the second returner than the second returner than the form of the afterburner, print the section control level tanked through the control level tanked through the control level tanked to the second returner to the required engine speed only the strong control returner in the section and the strong control returner is the section at the section section of the second returner to the section of the section

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the aftertoners from compiling when thronty off the engine aftertoners at flying special share 300 km ke.

To the eff the afterturner in these strength, which the engine control lever book temper, the combat rating rings.

The presently burn on the offerbarran, set the angine control lever at the increases of one or cut in or out the afterbarran circuit breaker.

Shift the engine control lever beyond the conductation into only after carrying out the above operations. This is normal procedure to proper the electron structs for repeated turning on of the afterbarran.

500. To present operatorous cretanges of less than 500 km/m, operate the rection only et creates or sugmented rating, Near throttling the engine at these altitudes, gain the combat rating as eletitudes of less than 10,000 m and an indicated airspred of above 3000 km/m.

To present apontaneous cutting-off of spine, rotal 25-ts, at eletitudes altoyed 16,000 m, the engine afterbarror may be turned of a trying speeds of some than 300 km/m IAS.

TAKE-CFF LITHOUT SURNISS-ON APTERSURSER

507. Defore taxing-off, the pilot should make sure that the SCALLZ CFFS (INCID α EPATO) α change-over matter is in the CHOSED (SARFATO) position.

Courting. When taking off with the notate open, the length of t-ke-off one is should twice as such owing to the decrease of the engine trust.

SGB. The two-off bound pure in the MEM -179 and MEM To the engine inject.

SGB. The two-off bound pure in the MEM -179 and MEM To aircraft, with the afterburner turned off, done not presidently differ from that in the MEM -17 eigenst. The
take-off run longth is escentify greater than that of the MEM -17 aircraft. The unvivil speed of the MEM -1709 aircraft, or ecopared to that of the MEM -17 aircraft, in increased by 10 - 20 in/he.

TARE-CVF CITE APTERIORNES TURIND OF ON THE SECOND

TABLETY with Partitional Tender to the take-off run and take-off path, it is allead to take off with the afterbarner turned on.

700, This would not take off with the afterbarner turned on, the afterant rapidly gains speed both entire the tender of the other forms of after the unstite, which considerably refuses the length of the take off run of the MAT-IT's alrest foun to 350 - 400 m, and the

the length of the take off run of the WA-T7 streamf form to 350 - 500 s, and the clibbing time.

511. Then taking off with turning on the afterburner for subsequent flying at low allitudes, the pilot neural carefully saith the five resulting cline the use of the afterburner at low slitters involves considerable contempts of ref.

Tours off the afterburner after tensoff of an allitude of 150 - 200 s.

501. Sulte flying the louding pattern, turn to base log at a speed of 100 mykr, allies on the base log at a speed of 50 - 700 cm/hr and jurious the time light turn at a speed of clintum 350 bytus. Miter turning flyah, saintsin the gliding speed of the speed of the

Daily 20,3 myths.

2001 20,3 myths gliding, with the engine numing at ille rating, hear in mind durk side accordant to (tipe required to pick up sizes from 15te to vake-off rating) makes up 15 endured, therefore, the decision to add given on to governed about he takes

in due ties.

Site. The flying including of the MaT-17 pandwaT-170 already, with the afterturner turned off, done not practically differ from that of the MaT-17 already.



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Bate of Citat of Citate Alteract Val-17 with Afterburger Denvi on or off

iltitude,	41.07	afterburse	armer turned off Rith efterbus			burser turned on	
	true erced read by this pointer) during climbing, hold	vertical speed, s/sec	climbing time,	trie dir- speed (red by thin pointer) during climbing, hm/hr	vertical speed. E/asc	climbing time, min	
1000	750	39.6	0.4				
5000	7'0	36.4	0.9	_	-	-	
3000	7°C	33.9	1.3	1003	75.8	-	
4200	750	55	1.9	1000	70.4	1.7	
5000	750	25.8	2.4	1000	65.0	1.9	
ecos	750	26 2	3.0	1000		2.1	
7000	750	23.6	3.2	1000	59.7	2.4	
8130	750	21.0	4.5		54.4	2.7	
9000	750	19.4	5.3	1000	49.0	5.0	
0.000	750	16.0	6.2	1000	43.8	3.3	
1,000	750	13.4	7.5	1000	38.4	3.7	
2,∞0	750	10.0	8.8	929	33.0	4.2	
3.000	750	7.0	10.0	970	23.0	4.7	
e,coo	750	3.9	16.0	970	22.5	5.4	
5,000	750	0.8		970	17.2	6.3	
6,000	750		22.0	940	11.8	7.4	
ı	1	- 1	:	910	6.7	9.2	

whis. The climbing time at augmented rating is given for confictions of climbing flight up to 3000 n at engine combat rating, with the afterburner turned off. 515. Clish the alteract, with the afterburner tuned off, at the following speeds:
(6) in the WiF-17) sirrest - at true airspeed of 750 km/km (as reed by the thin

(b) in the Mar-I7m; aircraft - at a true alrapsed of 730 km/hr (as read by the

this pointer).

Sti. Olimbing at sugmented rating should be performed:

Sti. Olimbing at sugmented rating should be performed:

Sti. Olimbing at sugmented rating should be performed:

to the \$87-773 Animative up to an abilitude of 10,000 m - at a true alrepted of 1000 km/hr; five an abilitude of 13,000 m - at a true alrepted of 1000 km/hr; five forces applied to the control with, the climbing the director at sugmented rating up to 10,000 m, at pressing forces and enount to 5 - 7 km. At altitude of 10,000 m and above, the factor on the control with change into pulling forces and not control with change in 10 km at 10 km and above, the 10 km at 10 km at

Pate of Cited of Stocke Almosta INC-103 with Attentumes Comed to be off

with efterourer turnet on 41 off 11:1true eirsprei
(read by thin
spinter) during climbing,
km/hr speed, true sirepeo! (read by this pointer) dur-ing climbing, km/cr vertical aport, m/nec climing time, sin 212 0 1790 2500 5000 5000 5000 6000 2000 2000 10,000 11,000 12,000 11,000 12,000 11,000 11,000 33.5 31.8 29.8 27.8 25.8 23.8 21.8 17.8 15.8 15.7 11.7 8.3 5.0 1.6 0.5 1.0 1.6 2.2 2.9 3.7 4.5 5.3 6.4 7.6 8.9 10,5 59.5 55.0 50.5 46.0 41.3 56.3 26.0 22.8 16.5 11.1 5.6

Hote, the climbing they at expenses rather in the continuous of climbing flight up to 400 m to engine cubit rather, but the adventurer turned off.

510. While climbing at axioms gived to an altitude of 580 - 7000 m, with the afterburger turned on, the communition of furl for climbing to an altitude above and the communition of furl for climbing to an altitude above turned off.

1291 Fig. 7. The maximum level flight openin (real by the thin pointer) of the MST-1700 and MST-170 aircraft, with the region running of augmented rating, increase as compared to the flying speaks with the engine running at combat rating. The speed values (takillossines per hole) are specified in Table 17.

			1
lireraft		Altitude, #	12,000
	5000	1071	1054
VAF-175	1130 1165	1052	1038
Har-17mb	1 1103	ì	

500, While flying level at the norized speak, with the afterburner turned on at an attitude of less than 10,000 a (for shorter MeT-172), the pilot experiences present forces on the control stick (the energet fitte once up). Turn, at an attitude of 5000 x with an instance disperse of 5000 x with an instance disperse of 5000 x with an instance disperse of 5000 x with a to standard or 5000 x wit

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24. The annual perminsible flying ejects (in klichetres per bour) of the Maf-17) and Maf-17m sicreaft at various sittindes equal respectively to the values of two in Table 13.

Alreraft			7 a b 1 . 18
		Altitule, a	
	up to 3000	up 60 7000	above 7000
Mar-175 and Car-17ma	106G (real by the instrument)	1150 (read by the thin pointer)	Up to the service ceiling flying speed should not exced 1100 km/hr (as read by thin pointer)

AIRCRAFT BALANCING

522. The trim speed of the MET-179 and MET-170 alternaft (with zero forces on the control stick) at a climbing stitute, with the engine running at nominal rating at a speed of 11,200 r.p.m., at an altitude of 5000 - 5.00 a (the elevator trim tab being in the neutral position), should take up 600 - 50 hm/hr.

PLICET MANEUVERS

52). The flying technique of the MZI-17) oil MZI-1700 sircraft with the afterNumer turned on differs but elicitly from that with the after-burner turned off.

Six. File performing vertical scenavors at Capanied retire, with the sens
(-loads as in flying with the afterburner turned off, the flight memourns become
stretched in elittude and the time required for performing them increases.

The performance of banked turns at acquated retire may involve greater filleds
than in flying with the afterburner timed off; owing to greater G-loads the mansurveying time decreases.

The characteristics of optimus broady banked turns performed in the MZI-170
and MZI-1703 aircraft at in elitible of 10,000 a are presented in Table 19.

Characteristics of Optimit Steedy Parked

istics	with afterburner	7	WAT-17E5		
Speci, be/se	off, E=11,560 F.p.E.	with after- burser in, m=11,500 r.p.t.	with af- terturner off, ne11,560 r.p.	with efter- burner on, Eall, Sour.p	
ine, sec bitis, m <u>Note:</u> For the	ExF-1725 sirors t the	54.2	440 85 2850	÷50 62	

525. Flying at sugmented nating has impressed the flight manelyer vittings as fullows

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- (a) backed turns of up to 45° may be performed at allitudes up to 15,000 mr.

 (b) 30° barved turns may be executed at an altitude up to 15,000 mr.

 (c) the sormal luop and half-cloop may be entered at an altitude of 75,000 mr.

 126. Invaried Hillor at conduct reting, with the afterburner turned off, is allitude for not more than 15 eccouls, while that with the afterburner turned or may be performed for not more than 5 eccouls, while that with the afterburner turned or may be 500 litres.
 - Soution. Assore the aircraft from verticel managers at separate ratio, of an the aircraft is subject to positive G-load (above +0.1), since two combined flight tank will especity is insufficient.
- 526. The cylin characteristics of the MNI-170 and MNI-1779 almorate are similar to those of the WNI-17 aircraft; therefore, these aircraft are recovered from the spin in the same way as the MNI-17 aircraft.

PASGE AND ENDURANCE

526. To gain the maximum rance and columnies in the MaT-17m3 electeds, notice that the indicated singuishe given in Table 20.

Initiated Airm meds Corresponding to Bardous Burge and Endurance

Flight eltitude,	Indicated einspeed corres- positing to maximum range,	Posting to riving on many
5000	470-570	3(0-320
10,000	500-430	300-320
12,000	390-440	300-320

529. Gille the Mar-170 and Mar-1702 aircraft with a retracted limiting sear out the engine control lever set in the idle rating position, at the speeds indicated for the Mai-17 aircraft.

EDEGLACT PROCEDURES AFTEREMENT PALLS TO THE OFF

ATTERMENTALE TO THE OFF

530. In case the afterburar falls to turn off when actuated by the engine central source, turn off the afterburar mining the engency procedure, for which purpose that the ATTERMENT AMERICAN LABORITY THAT OFF (ALPHANDS BATH PRINTS ATTERMENT (CHOINT ARTETMENT AND ATTERMENT ATTERMENT

If the efterburne, has been turned off by the energency procedure, etcp the engine efter her fing only by the content of the ground engineer (unless stoothely necessary).

SECRET/NO FOREIGN DISSEMING pround engineer should intestinably check the position of entring the notices on

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the KT-2 probability of the ATC-bid valve. If the outsides are alligned, stop the enjoy using the coreal properture, i.e., by closing the stoperet. However, if the notices on the KT-2 noticestation are also should say the engine by closing the fuel shut-off valve, to avoid ignation or fuel in the affecturers and danger to the affected, to be not fighthe abrorate before the affecturers turn-off trouble has been found and eliminated.

PRODUCED OF ENGINEERING VIRE

531. Should a fire occur in flight with the cogine running at augmontee rating, turn off the afterburner using the energy procedure and, then, proceed in the case was as in case of fire in the MIT-IV already.

PROCEDURE ON ECCOUPTERING FORUND LANDING

FRANCISCE ON ECCUMENTA PROMISE PRINCIPLE AND MAINTAINS

532. In case of forced laxing of the MRI-175 and MRI-1775 alreraft on the ground,
in sofition to the operations performed in the MRI-174 sirroraft, extent the laming
gaze care leg using the energons procedure for which purpose pull the energons/control bandle located on the lower console of the instrument part all the way back. The
draw, check by the sockenical indicator and surning lights if the laming gear nose
leg has come off from the lock.

PROCEDURE OF ENCOUNTERING AFTERMENER SIGNAMENCES THAN-OFF

53. Spontaneous turn-off of the afterburner 4 - 6 seconds after its switchingon, teatifies to its operation of the interiock system due to the jet mostle flags
failure to open. Spontaneous turn-off may involve above-time amorphase of the above
cas tupracting up to downood and the appearance of pages, which, however, do not interfers with the morael operation of the engine. If this is the case, do not turn on
home sirfield.

APPENDIX

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Alterest Serformance Reference Table for MoS-17 Alterest and Its Modifications

Date	Var-17	14F-175	241-175	Wal-17:	5 Sides
1	2	3		-	
Englas: type Errust, kg	1	27-1A 27-3	37-13 2220 3380	27-16 2650 3380	With afterburger off With afterburger on
without drop fuel tanks with drop fuel tanks	1 <u>035</u>	1432 2230	1410 2213	1135 2135	Capacity of drop fuel tanks 2 x 400 lit
Flying weight, kgr neract assissa (with drop fuel tanks)	53.50 1272	2550	535 <u>4</u>	559	
Unstick speed, km/hr	250-530	255	235	246	Plans retracted. Without drop fuel tanks; afterburger
Lingth, Rt			ľ		turned off
take-off path	1559 1553	1505	15:3	733-930	Secre
Optimis clinbing speed (as read by thin pointer), km/hr:					With afterburner turned our for Man-17; aircraft_at an airia
at take off (com-	750	750	750	760	aircreft at an elti-
engine rating	1			1	of 4000 m
t formal engine ra-	720	7≈≎	720	?50	•
ing up to sh arti- tude of 10,000 m	-	-	1000	990	From an altitude of
ing from 11,000 to	-	-	920	_	20,000 m, decrease the climping speed by 20 km/hr per each
ing from 14,000 to	_			1	1000 m of altitude for Mel-17mb siroraft
arinum rate of climit ith engine runnin; t take-off (combat ating, m/mec;		-	940)		For National aircraft flying at aumonted rat- ing at an altitude of New a, and for National
t an aittende of	2.0	,			at an eltitude of

			1cs ·	SECR	ET/NO FOREIGN DISSE	*	-				50	50X1-HUM
1											• • • .	*
					6	<u> </u>	F			1 2	T 6	
et au altitude of		1	1	1		Kinisus flying	200-220	210-230	200-220	210-230	O The landing gear	
5000 a	35.0	27.0	65.0	55.0		speed at which	1	1	1	1	and flaps are retriet-	
at an altitude of		1	1	1	1	the all raft	,	1 .	ı	1	ed (idle reting)	
10,000 #	20.0	15.0	38.4	32.3	1	loses stebili-	1 '	1	I	1		•
at an altitude of		1		1.	i ·	ii ty, ka∕kr	1 '	1 .	1		1	-
	2.6	-	11.8	5.6	1	4	1 '	1	1	,	I again and a second	· · · · · · · · · · · · · · · · · · ·
at an altitude of	1	l	1	1	1	Speed corresponding	ze 490	480	450	480		
16,00 m	-	-	6.7	1 -	1	to maximum range	1 '	1 .	· ·	1 -	the specified speed	
Minimus climbing	i	l	Ì	1	1	for an altitude	1 ,	1	1	,	is impressed by	
time at engine take	.1	1 .	1	I	Por Wal-175 aircraft	of 10,000 m,	1 ,	1 ,	1	,	20 km/ar per each	
off (combat) rating]	1	1.	ı	flying at sugmented	il tayor ,	i •	1 . ,	1	1 ,	1000 m of altitude	-
min:	1	1 .	1	ł	ruting at an altitude	<i>i</i> t	1 ,	1 '	1	ί,	decreese, and decreased	
1000 a	0.35	0.4	0.4	1	of 5000 m, and for	<u>4]</u>	1 -	1 ,	1 '	1 ,	by 20 km/hr per each	
5000 m	2.0	2.5	2.1	0.5	Mal-1705 aircraft at	ರೆ !	1 -	1. •	1	1 . ,	1000 m of altitude	
10,000 m	5.1	6.6	3.7	2.5	an altitude of 4000 m	1	()	1 ,	1	1 , 1	increase, as compared	
15,000 m	14.6	-	3.7	4.5	1	到 1	1 ,	1 ,	1 ,		to the altitude of	
16,000 m	1 -	1 -	9.2	9.8	1	a) I	()	1 ,	1 '	1 :	10,000 a	
	1	1	·	1 -	1 :		300-320	300-320	309-320	300-320	For all mititules	
Service seiling, as	4	1 .	1	-	1 :	ing to gazizen	()	1 ~ 1	,		(IAS)	
with afterburner turned aff	1	! ,	1	1 .	We climbing has been	endurance, km/hr	1 1	1 3	()	1 1	1 (1227)	
turned off with afterburner	15,500	14,500	15,100	14,450	practised above 16,470 m		1 1	1 1	, ,	1)	1	
prince of	1	1 ,	1	,	1	Maximum ronge	1 1	4	4 J	()	Numerator indicates	·
ecrase -e	! ·	! - '	16,470	16,300	f	(stage), has	1)	1 1	e		flight range without	,
Kaximum speed at	1	1 ,	1	,	f r	at an eltitude	į 1	1 3	į į	1 1	drop tanks;	
various altitudes.	1	1 ,	1 '	1 ,	1 3	of 1000 m	(-1)	i - J	733	- 728		
kn/hr:	!	,	1 '	1 ,	1	1	()	()	, ⁷³⁰	740	1	
at an altitude of	1	1	1	1 1	1 V	at an altitude of	t J.	f	i = 1	1 . }	• ·	1
1000 #	1110	1 1	1 '	1 1	r	, ×××× ,	765	780	670	690	•	3
at an altitude of	1,000	 	·	 			1	1140	1040	1070		
5000 a	1098	1085	, ,	1 1	£		1185	(2)	990	1000	Denominator Indicates	
at an altitude of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 4085	1130	1123	. *	(1775	· — 1	1520		flight rarge with drop	
10,000 =	1048	1033	1	1 1	· · · · · · · · · · · · · · · · · · ·		1	i }	1	1	fuel tanks	
at an altitude of		1 ",	1071	1060	į.		1295	1550	1 <u>C</u> BQ	1100		
12,000 m	1030	1006	1054	· 1	, <u>†</u>		2150	1900	1670	1730		
	. 1	1	1054	1038	, / ·	Kexisus endurance	1 1	1]	. 1		Numerator indicates	
havious permissible flying speeds:	. 1	1		. 1	. Fe	(block), als:	1 }	4]	,)	1	Summerstor indicates endurance without drep	
ty to an altitude of	1	1		. 1			4	4	, ,		fuel tanks, denominator	
	1		J	. 1	, <u>*</u>	et an eltitude of	(.)	ı	1		indicates endurance	
from 3000 to 7000 m 1	1060	1060	1060	1060	y.	1051 3		· - 1	169		with drop fuel tanks	
		1200	1150	1060	IAS	at an altitude of	<i>i</i>	. 1		4 T. L	11 th and 1	
	to li-		1100	1150	713 719	5000 m	65	138	124	24		_
	- 1		1	''~	TAG	3	. = 1	, 150	124	, 128		
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Minimus Benguyaring		_		12		10,000 m	123		127	器		
egeed at all altitudes	,cn	340	300	340		at an altitude of	, 1w		,			
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ing coar extended	1 '	1	5.6	5.6	ı	\dot{H}	
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m/hr:	1 1	1 1 1	1	1	1		
with landing goar and	320-350	1 1	1	1	1 .	CONTRNIS	
flags retracted	1	325-355	_ 320-350	325-355	5	PROFACE.	
ith landing gear and	260-270	270-290	260-270	1	1	I. PREPARATION FOR FLIGHT.	
flags extended		,	1 200-20	270-280	4	Inspection of Atranga	
primus gliding speed	. 1		1 ,	1	1	Inspection of Cochit	
IAS), kn/nr:	1	47	i)	1 '	Fith or without	Preparation of Acti-G Suit MRX-I	
ree to estimate of	!	W	, ,	1 '	drop fuel tanks	Preparation of Ferschute.	
2,000 to 10,000 m	500	500	500	, ,	THE LEDES	Checking of Aircraft Equipment and Fittings after Entering Cockpit.	í
o,coo to 5000 a		1	, >00	500	1 :	Cockpit	
row at altitude of	550	550	550	550	1 1	Aircraft Transporter m	
XO to 500 m	650		" '1	, ,,,,	<i>i</i> − €	APE Automatic Pedia Co.	
1de idmiler mand	37 1	650	650	650	1 5	PB-2 Rodio Altimoran Co.	
efore levelling-off)	260-270	270-250	260-270	270~280		Aircraft Check before Sun Firing and Ecabing Micaions	
km/hr	1	1	1		<u>.</u>	Cockpit Check before High-titting and Embirg Missions	
nding speed,	- 1	ı	. 1	- 1	*	Aircraft Chock before Night Flight	
	170-190 1	160-200			\$? \$?	Postae Ground Starting	
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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 50X1-HUM SECRET/NO FOREIGN DISSEM focusents during scheduled maintenance operations on the - the score of the operations performing definitions sirfrent are engine which are listed in the Inspection Teice Fo.21. the spersions carried out to correct faults in Price Fo.21.

All the assemblies, mechanisms and units of the airfrace on ingine indicated in the present book are subject
to important and check-out even in case their operation
has been faultisss. The reason in that the purpose of
importances and scheduled semination operations continue
and it resonantian of freehiles market than in comments. units and systems which fail to meet the existing technical requirements;
- the approximate time quotes (in man-nours) for mainly in provention of treubles rather than in correction wach operation. SECRET/NO FOREIGN' DISSEM

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(indicated in the selumns are the combars of Process Charts which deal with the corresponding maintenance operations)

After first 5-b hours of engine opera-	After first 10-2 Oring begre	After first 2573 flying hours	After every 25'5 flying hours		After every 100°10 Lying hours	tion of o	lote:
64	1,35	13,15	15, 19, 20, 21, 22, 28, 52, 33, 37, 41, 50, 57, 59, 64	1, 2, 5, 9, 10, 11, 12, 15, 14, 16, 17, 10, 19, 20, 21, 22, 25, 24, 25, 29, 30, 32, 33, 34, 37, 38, 39, 40, 41, 42, 43, 44, 45,	7, 8, 9, 10, 11, 32, 13, 14, 16, 16, 17, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33,	242	1. Process Cart 50,51. AND-10 hydralic fluid is changed in L.D. Stock strate every 3 years of operation 2. Airtightness checks of desicer system (Feine 1)
-				46, 47, 46, 49, 52, 51, 52, 53, 54, 57, 55, 59, 60, 61, 62, 53, 64, 65, 66, 67, 68, 69, 70, 72	38, 39, 40, 41, 42, 43, 44, 45,		of Process Chart No.63) are carried out once every 100 flying hours 3. Process Chart No.70. Operations are performed during engine replacement and in case funcings is disjointed 4. Process Chart No.71. Operations are performed during correction-presentive

Mate. The terms of maintenance operations are given in strict conferring sim these indicates in the Inspersion Galde No.21, Second Edition.

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1. Bakeixled meintenatus operations on the aircraft

1. Roke birds astineous operations on the aircraft shall be performed in compliance with the Lespection Series St.21, the present Process Charte, aircraft service nameds and Americanter's Bolletins.

2. Sechembel meliterance operations on the aircrams, angine and equipment syntems of the aircraft should be carried out in terms which depend upon the number of aircraft should be to the service of the service of the aircraft should be carried out in terms which depend upon the number of aircraft styling hourse i.e. after the first 551, 1052 and 10510 outside of the service of the 151 months of 151 mo firing hours, so well as after every 6 and 12-1 months of

3. If the engine or any other unit has been replaced on the strength, maintenance operations on these are performed in terms depending on the masher of flying hours, i.e. other 25%, 5.65 and 10.50 flying hours.

4. To ensure trivials-free operation of the aircraft equipment in diverse climate conditions (high numidity, dust contains knowned kir, escal, or when specific missions impose hearier leads on particular units of the aircraft tha landing goar is support 0 to experience use and the like), shead-of-schedule seintenance operations on all or stay, unaconstructive terminative operations of all or separate sixtuati (or units) may be automated for performance during engine replacement work or when the aircraft is withinton from Hydig massions for a long period of time. Here non-scheduled operations should be carried out in compliance with the imspection Suite Fa.21.

5. Frior to forwarding the sirerest to maintenance

ream it is necessary to directory the seat ejection par-ticle story; remaining and the drop tase jestiment system, the story; remaining an aid the drop tase jestiment system, is with an it interest contain, recitable liminator system, and the directory of their financiar, type SECR-46. Each remaining will the contain themselves, type SECR-46. Each are manyfact, the the expension and the provinces could be taken. The name and is one important in the course of the post-filtric imperious procedure, with recording of

all the faults detected. The troubles revealed during the inspection should be entered in the appropriate Service Logs and then eliminated (but for those which can be re-

logs and here statistics (or to the second precedure).

6. Before the beginning of the scheduled maintenance operations the aircraft should be inspected in the seepe of the second less than the second precedure.

of the post-flight inspection procedure.
7. Special preparations should be carried out at the maintenance site in the following sequence:

(a) select and arrange conveniently the tools, firthers and accessories which are required for maintenance operations. The tools should be contained in special tool ures or in bags which bear identification inscriptions;
(b) remove the canvas covers from the aircraft;

(c) attach the walks on the wing:

(d) open the necessary access hole panels on the wing and fuseless.

8. All maintenance operations should be perform with serviceable and nursed tools and accessories strached to the dirirane and engine.

Prior to, and after maintenance operations on the air-craft, it is necessary to checklist all the tools in order to kake sure that not a single tool has been lest or left

9. Fren carrying out inspections and maintenant operations the external surfaces of the units of the eig-frame, argament items, flight control and navigating frame, argament items, flight control and navigating sequipment, the resite and refer equipment, as well as their controlling lines and since chould be cleaned from dist, dust and old labulerate.

Sold have recover dirt with minkerousee mixture. No, heave dirt from the surrests whin with water making nor of a main breath or clean range.

11. Somewe less and hear-frost from the sirvests skin

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care pir fed from a bester, The aurices cleaned from ice chould be dripd with warm air. The air tempera-ture chould be not over 70 - 80°0.

ANNUS. Rever attempt to tear frost-study convenes

from alrereft sain since otherwise the varnish costing of sain will be descret. Use warm mir to unfreeze canvases befor

ing them from mireraft.

12. All the holes in units, pipelines and all the plug connectors which are opened during maintenance opera-tions on the sircraft should be scaled with plugs or FNC

of pipelines with cotton wool, besp and the like when disconnecting pipelines of systems. Only clean rags should be used for eleming operations.

13. He parking the emost glaning and the contribt pressurisation rebber tube should be protected against effect of sun rays; for this purpose the except chould be

14. All the maintenance operations and cases of fault correction should be recorded in the sinf-ace and engine Service Logs and in the Aircraft Pre-Flight Inspec-

1/10 log.
15. The sircusft technician superintends all the ejerations communing repair, adjustment and correction of feults which were detected during aircraft inspections tefore the scheduled maintenance operations.

Safety Precoutions

15. Pefore britishing importion and maintenance of the control of the maintain that all the microsoff pressu-th to the revent acceptabiliting, drep tenk jottleming, $c_{\rm c} \approx 4\pi c_{\rm c} / a_{\rm c}$, unline year retraction and spontaneous

engagement of electric omits since there may result in grave accidents and failure of almoraly equipment.

To obtate these modestrable cause open the easily; install the ground safety lookpins in the operating rom of the campy recover game and, without climbing into the compty, make sure that:

- the seat spection gam and the canopy remover gam are discharged:

are also harged;

- the ground safety pins are installed in the 2155 dropse gam and in the 2150 campy remover gam attracting relies; safety covers are fitted over the safet attracting - the ground safety pin is inserted in the campy automorous jettinon lever and the lever is located the

lever of the duplicating canopy unlost system is locked;
- the drop tank energency jettless canonal button on
the instrument panel is casped and the drop tank jettlers
in it discovered. gwa is distarged:

- the landing gear control hundle is latered in the neutral posttion;

neutral postutes:

- all the astronom and automatic circuit-breakers of
the electric squipment in the compute (with the emperior
of times shich are locked) are in the OFF (seminanc)
position (the automatic circuit-breakers located under
the right-hand transparant panel may be left CF but for
the ARKO - SAFS (SEPAS-MEMERY) circuit-breaker);
- the DF with destruction circuit-is OFF, i.e.

safety pin in the cockylit is instelled, and the price on the IFF destructor control panel in the nose accessory comparison is in the CFF (BAILVIER) position. 19. Then pourting the drop tenk on the aircraft do not switch on the storage battery before completion of drop tenk nouncing preparation.

No. Before improving the frees are trusted or the armoral systems by on the proseduced tick (located in one wall of the right I.G. leg) and look it sitt a flagged

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tarety pin; then commande open one air brakes. Prior to occoping the expressions constructed the pressure in the hydrocommunity of the contract of the contrac

is system to zero.

***ELLEGIS to its provides to extend the air brakes
for inspection by pressing the air brake fortrol
pun be to located or the pilot's control stick.

2. It is furtified to stay is the cockpit when the sells of the lambing gear, flaps and air braces are being imported with the hydraville system more presents.

3. It is forbidden to extend the air brakes with the sid of the live hydrenic system (for operation in the well of the air brakes).

15. Before working is the well of the year air breke disconnect the hydraulic cylinder operating rod from the air brake with the pressure in the main hydraulic system

refunct to zero.

21. Type termination of inspection and maintenance operations in the sir bress wells close the cross-food monk.

It is fortidden to fly the sircraft with the cross-feed core over.

21. They ordered specialists are authorized to loss and unload the seat ejection rm, the campy remover rms and the loss take jetting rms, to which the control of the drop take jettings rms firing group, she test-fire the explosive charge-actuated mechanisms with special primers and to check the charge-intuated mechanisms for proper functioning.

and to couch the charge-intuited mechanisms for proper functioning.

The reclaminal control lines of the explosive charge fring reclamisms of the such ejection gas and campy jettions are account to adjusted by apecualisms included in how suffices bountered to adjusted by apecualisms included in how suffices bountered to cam.

22. All the action mans, properations and adjusting operations to the event operation graph operations and the event operation of the event of the event operations of the eve

and the territorian that well the the second to the

and drop tant jettises gun should be carried out with the

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4 Sec. 21.

explasive larger records.

23. It is forbidden to demount the catopy from the aircraft together with the interlock cable.

24. Diring loading and unleading operations of the

24. Puring loading and unleading operations of tassiminft arasent systems it is necessary to place a red
flag (or a red lantern whos dark) at a distance of 3 to
5 metres fore of the aircraft mose, in addition a red
flag (lantern) should be also-placed-behind the tail
section of the aircraft when special units (pods) are being
attached. The flag (lantern) indicates that staying or passing in front of or behind the aircraft in prohibited.

25. Then fuelling the aircraft it is forbidden to stay under the aircraft or to work from a service ladder at the fuselage tail section either otherwise sudden astring-down of the aircraft under the gravity of the tank-filling fuel may result in grave injuries to the personnel.

26. It is forbidden to fuel the aircraft which is within the reach of gas aircent from other tailing eir-

within the reach of gas stream from other taxiing eirersft or in close downsind proximity to the aircraft with running engines.

27. During maintenance operations on the sireraft never place foreign objects on the parts, essemblies and maits of the sirrams and engine, typen completion of meintenance operations make certain that no foreign objects are left in the access belos, compartment, and on the units and accessories of the sirrams and engine.

28. Before the first starting of the engine, as well: as after every disconnection of fuel and hydraulic system lines of the engine or sirframe for units replacement, pusp ine systems through to eliminate air locks, especially if there are indications of such locks.

FO. If cil has been drained from the engine oil sprier, prior to starting the engine charge oil to the normal level incoming with the sid of the dip stices the

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clevel about be 11 2 0.5 litres). Then start the engine are make it run at 506 normal rating during 30 seconds. Piter the engine is stopped check the oil level and add oil into the tank till the required level.

SPIE PILL OIL OWN CAPACITY.

10. It is forbidden to add oil into the engine oil spates with the engine running since otherwise undesirable splane-set of oil may happen.

31. After scheduled maintenance operations and upon

3): After echeduled maintenance operations and upon elimination of troubles the engine should be started and tested only at grounds specially assigned and equipped for this purpose.

for this purpose.

32. Hever start the engine unless brake chocks are placed under the landing gear sheels. Before starting the engine for teating at auguented rating moor the aircraft by means of cables.

3). Before ground check-running of the engine install

protective errors or the additional air intake whether ports and rearre these across before taxing to the takeoff position. At parking, plug the additional air istake abouter ports. 50X1-HUM:

anheter ports.

As During the first starting and check-running of the engine after the scheluld asintenance operations check (with the engine running lile and with the engine compartment access hole covers open) for leakage of feel and will from the joints or pipelines and will from the joints or pipelines and wills. Only after this check it is allowed to carry our engine check-

ing at higher power ratings.

35. In the occurse of the entire service life or storm go of the segime on the aircraft the sociae system should be filled with fuel. In case the freel system of the sociae is expited it is necessary to subject the system to internal corresion-presentive treatment no later than in twenty four hours after fuel drainage.



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Supplement to Inspection
Outdo No.El.

PULL SITEM

LIMITS FILING STREET SENSUE VALUE CONTEST

Sended I

Procedure

L. Sharve drup field tenk and drup
task prima

2. Disconnect hydramits aylinder
operating red from left L.G. door and
lift dear

3. Owen penal of socone hale leeding to pump of tenks 3 (on framings parts
side, between frame Soc 16 and 20),
(see Fig.1)

4. Sharve filter from special
valve control pressure pipe; excess
exter from unit 499-64, remove manreturn valve, remove howmoverable principles of the sensue o

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Suplement to Tappersion	PR2685	S CEART TO.	1	ls 2 sheets Sheet 2	
real states	FASSING PIL	PASSELF LIFE OF FURL STATES			
Procedure	Sechnical re	interests.	Pault correct	tion	
6. No-install filter in special value control pressure line of fuel systems extent it in as far as it will and enforty with locking wire KNA-0.8 ". Park all tube, engury pumps as chack system for airtightness S. Clove access hole pass) and locks.	a				
•				1	
e de la companya de			in the second		
Accessories			Tools		
		Multi-purpose fl Soreviriesr	7; 24 x 27 and 50 x 52 at-mose pliers cross-clitted scress		

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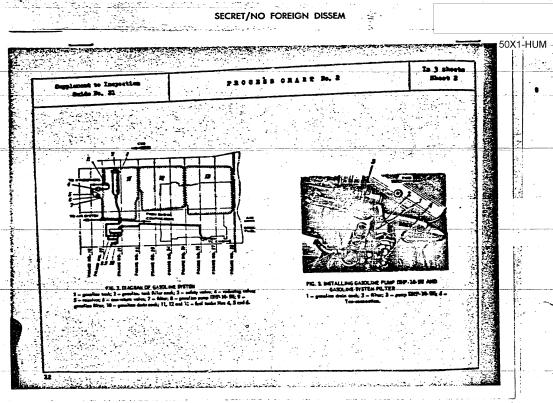
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•	Surphenest to Inspection Suice 20,22	PROCESS SEART NO.	. 2	In 3 storts Short 1	
	AST STATE	RESULTS AND DESIGNING GENERAL	e some form	Han-hours regained - 0.30	
	Procedure	Technical requirements	fault carrection		
	1. Open granite tent encess bels parel on funcings port side and revers filler meck cover 2. Open panel of access bels less ing to fire extinguishing cylinder and nyuremic accessories (on right botton atic of funcings). Filter 9 is install				
	between tank and pump uniflue-06 (715.2) 5. Drain generalize from tank into clean conteither by pressing upon drain cock 1 (715.3) 4. Dalock filter 5. Edwa off pipe note and ready filter. 2. Denound filter together with	Protect disconnected pipe ends			(4)
-	filts, 2. Denount filter together the five-connection 4 6. ban filter in pure gasoline and blow with compressed air	Filter gause and soldering places should be free from Carage and deformation	In case of deterior soldering, repair o	oreted filter gree r replace filter	
	: ::				

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The second secon	ere en	· · · · · · · · · · · · · · · · · · ·	A	a constant	Marie Company	
en.p: to Impecting	P 8 0	CREE CEART	Fo. 2	In ; sizete]	50X1-HU
FIRE CENTER	PARTIES AND	DESPERANTE GASCLES	BYCTOR PILOTO	Sceet 3	1	
Procedure		requirements	Fault convection	Rec-hours requires - 0.30		
7. Inspect filter games and solder- ing places 6. Re-mount filter, tighten muts and lock than 9. Fill test with gameline 10. Inspect filter commettees and mate are there is no gaseline leakage 11. Close thous note parsi and lock it	Filter show	uld be clean				
					o Control	· · · · · · · · · · · · · · · · · · ·
Accounted						
Esir. Sruch		Pliere Screwiniver Breach, 19 x 22 Breach, 32 x 56	Tools	3 4 5		
				23	in the state of th	
Professional and South Color	and the same of the same		OREIGN DISSEM	e To the second		

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Supplement to Instaction	TRABO ASECORE	Ko.3	In) chorie Sheet 1
Part Trick	PARELES STAR PARE I	TLTES	Men-bours required = 0.3
Procecure	fechnical requirements	Foult occreation	
1. Persons cover of access hole lead-		 	
as to III-18 purp located on wing under		1	
erface at most sections of ribs 13 - 14			
before doing this denount special reck,			
fety)			
2. Zemove screen which attach elec-		1	94 - 1 T
ric consections of pods and seve these			
ay from fillner cover to ensure free		1	
movel of filter cover (Fig.4)			
3- Onlock and unscree filter cover	1		
4. Withdrew filter element from			
5. he-mount filter cover on filter		Ī	
of to close filter opening		1	
6. Teah filter element in clean	Filter gruse should be olean and		,*;
soline, blow with compressed air and	free from damage on crumpling. Sol-	Filter elements eit	
Spect .	dered joints should be intect	or soldered joints abou	ld be replaced
7. Remove cover and insert filter	The integr		
enemat in filter body			
E. Screw in filter cover and secure			
with looking wire Krd-C.8		1	·
9. Attach and fisten in place sloo-			
at emmestions of special racks		1	
20. Cz aircraft beginning with		I ·	
r'al Yousels over manel of somene hole			
sider to acceptories located between	•	!	•

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Supplement to lespect		PROCESE	CEART So.	. 3	In 3 sheets Sheet 3
FIE STORE		Massirc air	TABLE PILITAGE		Man-bours required = 0.30
Procedure		Technical requ	l-enents	Fault correct	:los
15. Re-mount complete aircraft, attach and look 16. Refuel tambs, supa check system for airtights 17. Re-install across and sake it fact with acre	tole cover				
				-	
lecen	acries	•	Screwiriver for Special wreach f Flat-mone piece		:-7674-95

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Guide 80.77

PROCESS OFFET No. 4

In 3 sheets
Exect 1

PULL SPOTES

INSTRUCTION OF DROP FUEL TANK GATZE FILTER 1

Exect 1

From fuel from drop task (Fig.5)

into calcar container or refueller

if Unlock and serve plug out of drop

task drain hole

FERTIFE. Server but plug with special versor; never use additional lever for unacrewing

since otherwise welded joint

of task filler neck is likely

to get damaged.

If plug of drain pole fails to be

accessed out with wrench, remove upper
plug of task, fill task with 5 literes

of clean recover and rines task. In
spect gause filter through task upper
filtor neck and make sure at its intact

Filter sacuid to clean, its filter

Replace filter with damaged filtering

free from damage

The correction

Factorial Plant appear

in 3 sheets

Exect 1

Exect 2

Exect 2

Exect 1

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Exect 2

Exect 3

Exect 3

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Fulce Ro.21	P200	388 CRAPS	Eo.A	In 3 sceets Sheet 3
Mal Stett	Dispersion of	PEOP PUE SER SER	ZI FILER	Ean-hours required - 0.30
Procedure	Technical rec	pulrements	Pault correc	:-106
4. Lappor filter 5. help sure then tenk bottom and arcs cround drain hole are free from dirt and sediment 6. he-install filter, seree in ping and secure it with locking wire KOK-0.8				
	-			
Accessories			Tools	
	:	Special wrench, 7 Flat-mose pliers	2-7904-360	

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Supplement to Inspection Suide Eo. 23 PROCESS CHART 30.5 .-In 3 storie FUEL SYSTEM INSPECTION OF RECUITYT-C VALVE AND INTERIOR OF NOTE TANK BOAR Procedure Tenhnical requirements 9. Rook slightly pipe union of pump 45522 to carefully lower plate with regardive-developing extension lamp inspect (through impaction hole in tank Ro.) of the careful tank sulls are relater and make sure that tank walls are relater another nor laminated and that there is no nedle nor laminated and that there is no nedle gent on tank botton. Pault correction fluid or metal duri) Then through with inspection of tark interior close access hole with cover out out of this duralism sheet to match negative-; valve plate. Attach orver with FIG. & MEGINTINE IS VALVE TO ESSE FUEL PLAP ISSA four seress four serves

1. Inspect to make sure that
electric and looking fittings of
regative-G valve ancendites are intact
in that inner care is clean. Check
swither their is valve seas (Pig. 8) for
their in. Impect point at which seight
or equipm valve body
form's openious of regative-i
care transfer it if is eath torm valvecare transfer is the eath torm valvecare transfer of their care is a linear of
interest Clean or alreast Clearance tetween weight and valve body in normal (non-inverted) position should be not smaller than 2 can Smaller robor ended to franct; to ormalize or robors should be franct; to ormalize or burning points to occupating of the smaller points to be a separation should be present, in invested positions due to-fill-coll to be a significant of the country of the state of the country of the state of the country of the state of the st wight. Repusce rubber if eracked or

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Surplozent to impertion	PE00288	ORART Se.	5	IS 3 savets Sheet 3	50X1
Gaile Bo.21	INSISCRICE OF MENTION-	VALUE AND INCHES	E OF YORL TARE No.3	Pan-hours requires - 4.0	` 'j
Procedure	Technical requires		Fault correction	<u> </u>	1
1). Thech drain cost on negative- valve plate 14. Check sirtightness at valve a in inverted position (valve closed by gravity) at his pressure of 0.2 kg/on inside valve body during 5 minutes 15. Install plate with negative- valve in tank, Sefare installation,	Este, Clearance shrowd (he body shoul than 1 mm	1			
impact tank while in area of wive wight travel for absence of corruga- tion since corrugation may result in waive Midding. So corrugation in this area shall be tolerated			egg song Son (e. S. os S		
-			Spols		
Accasembe		Flat-come plie	7: 9 = 11: 14 × 17; 9 ×		a)

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Suppresent to Emperation Guine Bo.21 Le 3 states State 1 FURL SECTION DESPECTION OF PROLY VILYES OF TAXES NOW 1 AND 5 Inchnical requirements Poult correction 1. Drive cut norms and demount es float waive plate of tank He.1 2. Open cover of fuel tank He.5 (en fuelege port side)

5. Unlock and discomment control and
yout pipelines from tanks Hos 1 and 5

6. Unlock and acres out boits which
rttach float valve places of tanks Hos 1

A. Hos Control and Control and Control and S

6. Unlock and acres out boits which
rttach float valve places of tanks Hos 1 and)

5. Ownerfully recking pips unless re-cove valve plates of tanks Hes 1 and 3 (Fig. 9) FIG. 9 FEGAT VALVE OF TANKING TOOM LETERITH PLATE (FEATER ACTOR PERSONS TANKING TO PROPERTY TO THE PROPERTY TO THE PROPERTY AND THE PROPERTY A 6. Inepost parts of float valves to Corroued and damaged parts will Replace valves with corrected and damain sure that they are free from cor-torion and archanical damage 7. Check float valve for airtightness not be tolerated To this end:

(a) shift off one of valve pipe unions
at outply six pressure to other union
(30); Them air is supplied to valve at pressure of 0 to 1.8 kg/zs², no air bubbles are allowed



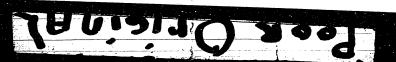
Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM _50X1-HUM_ In 3 sheets Chest 2 PROCESS CHART Fo. 6 Supplement to Inspecting State he.21 DESPECTION OF PLOAT VALVES OF TEXTS ROS 1 AND 3 required - 3.00 KIL SEE Fault correction People al requirements If bubbles are desired, test (b) immerse valve into water and, holding float in lower position (bell valves are closed), build up air pressure of 0 to 1.8 kg/cs.

In case at building check valve astitionally for airtightness by feal; to this wor fill beroses into valve body and build up pressure of 0 to 1.6 kg/cs. In case of poor sirtightness of Them air is supplied during 1 sinute at 0 to 1.5 kg/cg² to bross-me-filled valve, the valve under test is considered sirtigit if its leakage is not heavier than 10 drops per demount it and transfer to repair 83 PIG. 16. QUE OF HIS FLORT TALVE FOR AIRTIGHTHESS 3 . That we will $\beta=\pm i (p)$ is pression gauge, $\delta=\pm i (n p)$ only, $\beta=m \delta / n \log n$ or we, $\delta=\pm i (n \log n \log n$ والمناسب ومعتشعتكم لأرست فتعصفتك والمتفاضية والمنافضية والمائية والمستعدمة والمعاملا والمناسب ليجعد أأهرا SECRET/NO FOREIGN DISSEM

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		· · · · · · · · · · · · · · · · · · ·		
Supplement to Impection Gaide No.21	PROCES	S CRART No.	•	In 3 sheets Sheet 3
FORM SYSTEM	INSPECTION (OF FIGHT VILLES OF T	UTIS NOS 1 AND 3	Non-towns required - 3.00
Prepodure	Technical >	equirements	Family correct!	
6. Using extension lasp, inspect (continue plate hole) tank walls for con- dition and sake sure that tanks are free free foreign objects 9. 80-loajall plates of float valves, (inthe nest look bolts 10. Connest and look pipelines				
Accessories			alor.	
Extension lasp Devices for air supply at 0 to 1.5 kg/cm (Len Pingram in Fig.2)	a ² to float valve	200 xxx	ex-slittedbolts and ord 11, and put spenches, 14 36	



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In 2 shorte PROCESS CRIET No. 7 Onice So.23 DEATHAGE OF SEDDENT AND REALESTEDINGS WILL FORL STREET Rem-hours 1.01 - beriuper RESILTS FROM SING FULL OCKSTATIONESS Sectifical requirements Fault correction l. Brain feel from wing compartments sugh drain cook of sain feel line. To chis each

(a) ground aircraft and containers

(a) ground aircraft and containers

(b) open full is being drained;

(b) open filler neck of tanh Bo.2;

(c) open left access purel of engine
to obtain access to drain cock, entwork
for drain bese to drain cock, entwork
for drain bese to drain cock, etworch
hose towards container for drainage and
epen cock (Fig.11);

(d) writch on ground electric supply
counce and engage purp II of cervice lank
group and wing heal comparison pump
2. Irean sediment and non-approachile
fuel remain from wing tenks; to do this,
fuel remain from wing tenks; to do this,
following operations should be perforced in turn on each wing;

(b) acress special device for wing
fuel tank drain plug; into plug seat

(Fig.12); (c) there are stag opposite to shat *** (125: play by 200 mg);

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Supplement to Inspection Guide No.21	PROCESS -CHA	P 2 Bo. 7	It i cheese Sheet 2
PUSA, SYSTEM	DRAINAGE OF REDICES AND ROS- CO LEVE GRIP HOST WELKER		Hen-bours required - 2.00
Precedure	Technical requirements	7mlt correct	ica
(d) wring device screw out plug and forain fool remain into specially grepried oeafner Fold. Sefore carrying out operation wader live 2 open faller neek of tank Fold and ground drainage container and timerate as in live 1			
	FUEL REMAN FI	INT AND NON-EXPENSIVE KON WIND TANKS distinct for sing fluct mak diban	
Accessories		Tools	
Fuel drain hose (72-7804-320) Device for drain plugs of wing fuel com (72-7804-370)	French, 24 x spartments Screediver, Flat-mose pl	200 ma	



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In 2 steets Sheet 1 PROCES CRART So. 8 Geste Se. 2. INSTRUME OF SIG FOR THE AND SIGN SECTION OF SIGN SECTION OF SIGN SECTION SECTION SIGN SECTION SECTION SIGN SECTION SIGN SECTION SECTI PER STEEM 1. Turn out screen attaching panels of sccess holes which lead to tank attachment stude at fuselage part and attachment stides and in superstructure ensurround sides and in superstructure secretion; then open access penals (Figs 15) and 14) Note: To demonant fuel banks art as follows:

(A) must out access place; attendment receive of fuel tanks at part and entertain fuel access place; and entertain fuel access (Fig. 33); (b) statement receive at the fuel tank ancess panels (Fig. 35). 0 (3) VIZEUS. Do not open scress panels of tents For 4, 5 and 6 until attachment rols are rescred PERSONS CANDULT OF BUTCHACK STANDARD SIZE ACCESS HOLES CENDED TO THE TO ANY TROMENT FINE NUMBER FORE THE COURSE HOLE FOR ATTACHMENT SIZENS. since otherwise access panel hinge loops will be absored 2. Preserve enteres provide of times .
Fig. 5, and 6

1. S. Obrod to see if more who are use,
playing on their temporary about Note about he pigetly praced and reliebly broked on stude at shien in Hig. 16 ZΕ

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Supplement to Impection Ouide Ec. 21 PROCESS CRARS Sout Sheet 2 HISTORIES OF PURE STATES AND ROYAL SCHOOL STATES AND ROYAL CONTROL AND RELIABLE ANALYSIS FUEL SISTEM Procedure 4. Corch safety fittings on muts for condition 5. Re-install panels of access holse Family porrection leading to attachment stods and secure leading to attachment stude and secure thes with serves 6. Turn out serves which attach .sccess panol of fuel service tank lower section (from fuselage port side, in leading gear log will) 7. Morking through access hole check configure of service fuel tank lower section Inner walls of fuel tank should Should exected surface, attribute resulting in exposure of facric, lexing-tion or swelling of rubber be detected, descent faulty tank and install sew one be free from creeks, spens of attri-tion, as well as from laxination and swelling of rebbar 8. Es-instell and secure with screwe eccess bole cover Accessories Screwiniver for cross-slitted scre Rulti-purpose flat-more pliers French, 9 x 11 Screwiniver

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	mplement to Impection	PROCESS CE - 91 No. 9	In 2 sheets Sheet 1
	Getts Be. 21	productive cuscing system presentation with and o	NAD-Lours PERSE PROLITED-1-00
-	Procedure	Technical requirements	Fault correction
1. Un	lock and turn two mets off (soo Note, Cascline system pressuring tich mit is installed on per vall of right in. is, see will mare it is attached by seas of two yokes	
fasten pr	res two mits off bolts which essemisation unit rikes wefully bring poles open a resumisation unit from roke	2	
4, 3, éast Cli 5, 6 ant éar	In case of fieldow to com- presentation unit re- reducing valve at the left- move spring ring and within the free presentation unit ash filter in clean gasoline rais contensets from pressur	este	
	t cylinder		

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Procedure 7. Insert filter in cylinder and install spring ring 6. Install pressurisation unit back in place (the arrew on cylinder should be directed append), fasten it in pair		SISTEM FERRIFICATION FOR CONTRACTOR OF CONTR	Jult carree	Man-bours required-1,00
7. Insert filter in cylinder and install syring ring 8. Install pressurisation unit back in place (the arrow on cylinder should	Technical:	requirements	Failt correc	tien
install spring ring 8. Install pressurisation unit back in place (the arrow on cylinder should				
tion with screws, connect pipes and	-	#### 12 <u>34</u>		
Accessories	* 1 1 1 1 1		Tools	· 自己选品。
		Franci Flat-	bee, 14 x 17; 19 x 22 am nose pliers	19 x 22

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Supplement to Inspection Quide So. 22	PROCESS CEARS	Bo. 10	Sheet 1
PUL EISEM	CENCIES FOR STATES, SACON AND EMPLOYING ENCIPTOR FOR SISTEM PURLICE FOR AND	TO STOLY WARRENCE .	Ken-berry required-1.00
Preceduge	Tochnical requirements	Pmlt corre	
L. Operate through lower access hole (at left, between frames for 2) -20 to close cut-off valve of feel system 2, the neuroscal side of fundage tail section (above flag), in setal acress-protected recess, demant two valves of main tance preservisation tystem play disconnected ends	Finel system should be checked for sirtightness: (a) with finel tanks filled to capacity; (b) with suresists air pressure in pressurization system of 0.3 kg/cm ² ; suresists air pressure is built up with the sid of special device;		
3. Use rabber plug to shat off end of pips which runs from sealed box of drop half harmonical state.	(c) with drop tank and pylon re- nored. Puel pipeline of air pressur- sation system on fuelege should be elosed with special place		
valves over fractage airln on port safety fore of segime oil filler seek 4. Operating through acress hole on fuselage port side between frames Eas 25 - 29. discoursel tyrically system proconsistentia pips and explase air in- take pips from four-say consecuting plus pips autient			

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Supplement to Inspection Guide No. 21	720; E5.5 C2421 Fc. 19	In a greate Sheet 2
Pull States .	CECIDI DE TADO, ABCIDI ZITA AD EDATIC ENEZOE PERFULICI ASSE FUNDO PER APERCIA	Ken-aven required-1.00
Procedure	Sechnical requirements 7 and cor	rection
5. Using rubber ping close drain pipe which runs from drain (circular) applies over faselage skin, down at		
fame So. 29 6. 411 drain cocks of pumps and yates should be closed		
 Connect pipeline with rubber plug running from ground installation) to sel system went connection pipe located 		
the last on superstructure section of frame So. 284 8. Insert subber plug of device		
-9820-00 in pressure head air intake, smeeting pipe		्यासम्बद्धाः । स्टब्स्
9. Mild up air pressure of kg/cr2 in system and maintain this	Air pressure drop and hercoens leskage shall not be tolerated	
rosure during 15 minutes		
and Hydrauite Reservoir Pressurization Pipeline		
1. Fill tank with graciine and		
Ter on tink filler seck		

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__50X1-HUM In 4 sheets Supplement to Inspection Oride No. 21 PROCESS CEART To. 10 Sheet 3 CERCIDI PUL SISTEM, GISTUTE SISTEM ADD ETRECILLI ESSENCIE PERSONATION SISTEM PHELIES FOR AIRCIGENESS PULL STOTES Feult correction and State Renove byérsulie reservair filler seck cover from hydraulie booster charber (et fine-lage port side) and install sec-cerer provided with pressure gauge; before doing this, check level of hydreslic finit ANI-10 in reservoir

5. Operating through left-hand engine
access hole (down, at frame No. 27), disconnect pressurisation pipe running to gasoline tank and hydraulic reservoir from four-way connection. Connect home with mispter together with wheel tube inflation device to tube Action cevice to tube

Note, If it is only guardine system
in the base of the carticlatures, it is measure
to operate through scess hole
down at furshing part side
(at fram 30, 20) to disconnect
fram 30, 20) to disconnect
the corresponding to the pipe
which is used for the pipe
reserved presentation then
the corresponding end of
Ten-commettion surely be plugged
4, Commet at any time. 4. Comment air-charged ground bottle to device, open bottle valve with reducing walve remaining closed, and, slowly

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Supplement to Inspection Guide No. 21 In A sheets Elect 4 PROCESS_CRART 50, 10 FUEL SISTEM Procedure opening reducing valve, build up 10 kg/cs2 pressure 5. Make sure that pasoline tank pressure gauge resise 0.4 *0.05 kg/cm², and hydraulic reservoir pressure gauge indicates 1.6 to 2.45 kg/cm²; then close Weither decrease in pressure inti cations nor gasoline leakage at pipe joints shall be tolerated reducing walve and maintain this pressu in system during 15 min A STATE OF THE STATE OF 6. Restore initial pressure in 7. Open fuel cut-off cock and lock it with ECK-O.8 wire

8. With engine control lever in

COT-OFF (CTON) position, engage all fuel leakage of kerosome from pipeline joints and went system is not permiswater pumps for 5 to 10 minutes Accessories Screeniriver for cross-elitted acress
Frenches, 27; 19 x 22; 14 x 17 and 46
Flat-cose pliers Plug for fuel pipeline used when pylon is rehoved (No-6100-2825)
Airtightness test fixture for cockpit and fuel 75tes (\$6-9520-00)

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 entre in the respective verse SECRET/NO FOREIGN DISSEM , u __ 50X1-HUM 7a 3 charge Applement to Inspection CEMERING PERSONNIA VALUE IN FIG. GASOLING AND DYLAMPIC STREETS NITS DOLLD RECKLE, CHESICO AND ST. OF PRINCE AND IN THE FUEL COMPRESENTS OF APPENET RECENTED BITS SAMEL SO, 0005 Septour required - 6,7 THE STEEL During presentiation value check fuel two Mooth kerwene and gazo-L. Open covers of access holes and filler neeks of feel (tercorne and precline) tanks and hydraulic reservoir and fill them with fuel (kercorne and fuel trail. "Noth herewer and gase-line) should be filled to expectly: - fuel level in fuselage and trap fuel tunks should be below lawer edge of filler meaks by 20 to 30 mm in summer and 10 to 20 mm in winter; fuel level in gasoline tank should be greatine) and ANT-10 hydraulic fluid below lower edge of filler nock by 40 mm in winter and in summer; - hydraulic system reservoir in both sections) should be fully charged (within the limits of dip stick or garge class divisions) 2. Tightly close filler mack covers of fael tanks and hydraulic reservoir (with the exception of covers specified (with the emergine of covers specified in Tiens) being)

3. Install special caps with pressur grages (see Figs 16 and 17) in place of neps of filler such of fuel tark Fo. 4. filler such of gasoline tank, filler such of drop tenk and filler nuck of hydraulic booster channer (at the laft site) or of hydraulic reservoir sain FIG. 44 INSTALLING PRESSURE CARSES IN PLACE OF FILLER CARSES OF THE ASSOCIATION OF SECULDIFY TRACES 1 · · · i engering server in the control SECRET/NO FOREIGN DISSEM

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Aug language and a la		
Supplement to Impection Guide No. 21	PROCESS CHARS	No. 22 In 3 miners.
MIT RIBITA	CENTED PRESENTATION VALUE IN TURE, STEELED THE MOLE LINES. CENTER IN THE THE CHAPTERISTS OF APPRAISE RELIE	Gazzarez
Procedure	Pechnical requirements	Poult correction
ostes (at the right side). 6. Start engine and make it run a 7. ECS mornal retime, at this retime, rep tank feel consumption indicates rep tank feel consumption indicates rep tank feel consumption indicate per tank feel consumption indicate to be the feel consumption indicates per tank feel consumption per	Preservisation air preserve should is in tank \$0.4 - 0.21-0.23 \$2/cs² is gazoline tank - 0.4*0.05 \$2/cs²	
	160 - 245 18/02	connect fault by significants (before doing that bleed air free system by gradually acrowing off filler mode exps)
	FIG. 12. MOTALL MG PRESSURE HAUSE IN PLACE OF HYDRAULIC RESERVICE IF THE TELLER MEET TOWER	

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	Procedure Technical requirements Fault correction of the correct	
Procedure	Technical requirements	Jault correction
6. Reduce engine speed to idling rating and run it at this rating for 1 wise. 7. Stop engine. Fifteen minutes after engine stoppage, check air presence in practice that and hydraulic	them: (a) 0.17 kg/cm ² in tank Ho, 4; (b) 0.41 - 0.45 kg/cm ² in sing fuel compariments (for aircraft beginning with Serial Ho, 0615) In 15 minutes after argine stoppes, air pressure should be:	It is not advisable to tighten mis of pipeline connections with system
	(b) 1.6 to 2.45 kg/cm ² in hydren- lic reservoir.	
Accessories Pixture for checking pressurisatio	o of main and drop Pliers, flat servoir (CS-98159-00.	Zoole

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Supplement to Inspection (mids No. 21	PROCESSAGELE	7 Fo. 12	In 3 sleets Short 1
TIDE-RIGHTES ASSIM	PIPELINES PER COMPITION AND	DELLES VED	Nen-hours required - 0.1g
Procedure	Technical requirements	Pault correct	i de la constant de l
1. Check the following write and pleatines of fire-fighting system for proper committion and attachment: (a) fire extinguisher cylinder citached between frames Nos 21 and 22: (b) discharge ring (if engine is runored, check orifices for elemnass); (c) pipelines running from fire extinguisher cylinders to discharge ring extinguisher cylinders to discharge ring (d) fire detectors (thermoccuples).	to operating commercion. Fit cap over commercion imediately upon discomme- tion of pipeline; this dome, demount fire extinguisher from bracket. Fire cylinder surface should be clean and properly painted.		
	Pipelines should have no frayed spots deeper than 0.2 mm. Cylinder		
2. Check continuity of electric front between fire extinguisher operate botton and fire extinguisher cylinder chalance such feary out the check fertively with electrical equipment for more a besigning to this end; in a new condition of the cond			



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(b) insert 2 - 3 magnime resistor
between pipe (fire detector) and airfrace: this should result in operation
of E-2 electronic aspliffer, and in
illumination of FIZE (DCEP) indicator
""" then resister of 5 magnine is introced, E-2 amplifier does not operate SECRET/NO FOREIGN DISSEM

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PRE-PROPRIES SERVE		PIPELI							-		1,	Kon-b	- 0.1
hooding	· · · · · · ·	chilos	I regu	17ese	sto :-		_ <u></u>		Zaul:				
3. Renove-and check fire extinguish linders for proper charging by righing them of charging station 4. Re-install fire extinguisher	Collect												
linders and connect electric wires en-	Specified	below:	ور ما			- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		e e e e e e e e e e e e e e e e e e e					
		-		-		-	e es e es	• :			erezen.	**************************************	Town special C
	°c	-55	-45	-35	-25	-15	-5	0	+5	+15	-25	+35	1+15
	bg/ca ²	30	35	40	45	50	55	60	65	70	80	90	3400
	186							- د د د د د د د د د د د د د د د د د د د	2	- 			47
Accessories			T		,.z ⁱ	J		Tool		43.			
						blti-j		o De	- b os	plie			
= 1							•						



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Supplement to Inspection Suide No. 21	PROCESS CHART	Jo. 15	In 20 abouts Sheet 1
HEATLE SISTEM	CEASURG AND-10 EDEATED FAND IS STORA	ULIC SYSTEMS. REPLACE- ULIC SYSTEM PILITERS	required - 5.2
Procedure	Sechmical requirements Paul Correct		
	Rydranic finid is hydrenic systems should be charged for the first time after first 25 2 5 flying hours, without Communing and weshing of hydranic reservoir Subsequent changing of hydranics finid in hydranic systems which involves descounting and vaning of hydranic reservoir should be carried out after every 200 flying hours (2 years of created on	ged for the 25 2 5 flying ing and washing ag of hydranlis items which do vashing of hould be carried lying hours	
Preining AUT-10 Fluid from Principle Systems			
1. Jack aircraft up so as to obtain clearance act smaller than 50 mm betwee ground and wheels 2. Commett ground electric power supply source 5. In cockpit: close circuit-breaks of larding gear, flaps, air brakes and allerun hydraulic boosters			

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Supplement to Inspection	PROCESERVERA		Zs 20 c'aess
ETHAULIC SIBTER	CHARGE ANT-10 RIDEATLIC FIGHT IS BEEN		Scort 2
7rocedure	Technical requirements	T	Populard - 3.
	For Pollowing dirt prevention seasures abould be takens (a) before commercing ground purp was aircraft connections and hose tips	Parit corrects	
	(b) type corpleties of ground purp operation, the roughly wipe sirement connections and home tipes and along these		
4. Comment ground hydraulic pump ain hydraulic system and build up sure of 200 = 210 kg/cm ²	respective plags		
Before retrecting landing gear and extending air brakes and flaps make sure that there is			
mobody staying near landing gear, air brakes and flaps. As a measure of procession, give order: KEP SAN FROM AND ING CELS (KEP ANALY FROM AND			
BRAINE, (EAP AVAI FROM FLAPS); FERT retraction procedure only after the order has been acknowledged			

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Supplement to Inspection Onide No. 21	PROCESS CHART	He. 13	La Zi za Ecre		
meet and	CHARGE MIT-10 EDRATED FEMTER IS EL	AUTHO STRING, REGIACE- DRAVILLO SUSTEM PILONES	PHETES POLICE		
Procedure	Technical requirements	Pault correction	•		
5. Retract landing gear, extend cir breise and fleps, and discapes ground hydramic pump (for more affective cire ing of myrten repeat this procedure several times)					
6. Reduce pressure in min hydreali system to zero by moving aircraft cont rel stick forward and backward	The same and the same and the same and the same at the		ا معدد		
7. Discement hoses of ground hydre lie pump from aircraft connections 8. Geneet hydraulic fluid drain, fixture to scatten connection of aircra hydraulic system and drain hydraulic for finid from hydraulic reservoir.					
9. Flace landing pair central to Frinkill's (fourth) and exterd landing gear with the sid of entrymer present system by slowly opening cock valve 10. Fractuate air from londing gear hydraulist cylinders; to this said (facen meet ripes between cylinder and hydraulist lock					
11. Open filler mecks of hydraulic reservoir					

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Spiczent to Inspection Guide Zo. 21	PROCESS CHAR	2 So. 13 Esset &
ECDEATED STATES	CHARGES AND TO SELECT THE SECOND IN SECOND S	7
Procedure	Technical requirements	Pault correction
riace aim brake and flaps contributed for Estantial (TEREDO) and retract that and flaps manually as a contribute action, ANT-10 hydraulic fibit action, ANT-10 hydraulic fluid could be forced from cylinders detailed reservoir of hydraulic fluid from the flaps of hydraulic fluid fluid reservoir of hydraulic fluid fluid reservoir of hydraulic fluid fluid reservoir of hydraulic fluid f		
colic systems with all connections on gracity, Renews looking armone and serve off must which pipes to hydraulic reservoir of things over open ends of our connections of hydraulic crows open ends with PTC or crows open ends with PTC or they to prevent penetration of other penetrations.	1. Deacunt and weak hydrentic reservoir only after every 200 fly- ing hours (2 years of operation) 2. Merer bend discommented pipes since otherwise they are likely to get damaged. Rending of pipes any also result in mounting streams after re-installation of pipes if pipe fits connection tightly, release not on opposite end of pipe or release pipe attachment fitting	

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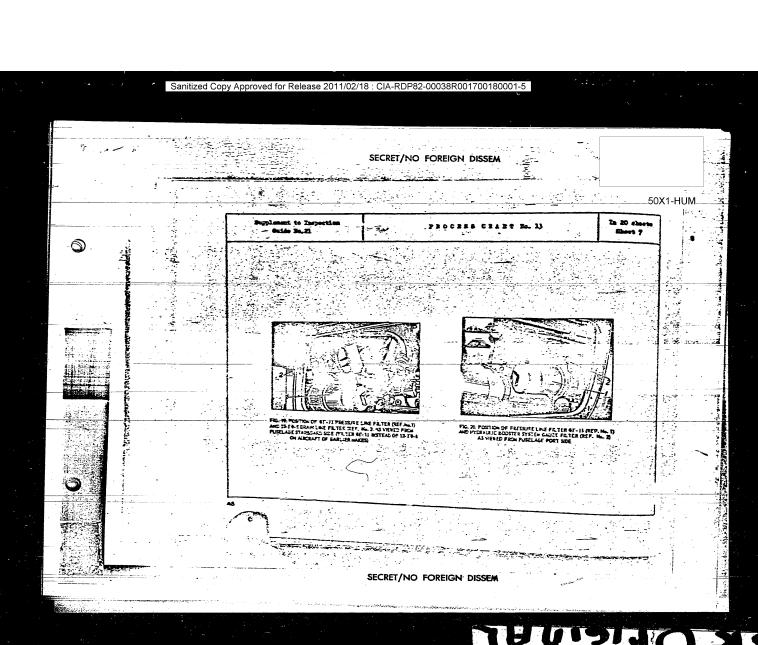
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upplement to Importion Onlie So. 21	PROCESS CRAR	P So. 13		7s 20 shorts
mismacc areas	CRESCIES ANT-10 EDERATES FUND IN MI	PAULE SISTE	S. PPLACE	Ran-house Sequired - 3.16
Procedure	Technical requirements	T :	anit correct	
of selded joints; make ourse that one no cracks at areas where not nourising bracksta are fitted to Re-install hydraulic reservoir, it fast an bracksta by means of and lock in place . Hence place from reservoir pipes meetions, and connect pipes to read.				
Pilitre in Privating Systems. Pilitre in Privating Systems. Leaving of Course Filitian Pethose cover of access hole lead- units of hydraulic systems (at the starboard and port sides between Fee 25 and 27), see Figs 19 and filter cup and pipe commettion of filter cup and pipe commettion of contamination of system these and acres cut filter sleere	Intien line in main hydran- lic system should be per- formed after first			

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STERAULIC SISTEM	OR PIER PILITARIES PLUMPER IN MINERAL		Kan-hours required - 3,10
Proceduro	Technical requirements	Pault correc	tter
Bote. Then replacing fine filteric eleasets in filters of straight-through type it is necessary to demonst completiture Samestly having previously, maned filter and tipe competions externally open ends of pipes should be plugged.	hours, while in filters of brurable booster system - once every 50 = 5 flying hours, Simultaneously, course filters should, course		
	(a) in pressure line of mais hydraulic system: filter @[-11, fuselage starboard side, between		
	frames Nos 25 - 27; filter 1170-4 (67-31 on aircraft of varlier sales), is fin, before DF-518 hydralie		
	booster - in return line of main hydrau- lic system: filter 01-11, fumelage starboard side, between fromes		
	Dos 25 - 27; filter 1170-a in Yorsard part of superstructure, see Fig.22; (b) in pressure line of hydran- lic booster system; filter 01-11,		

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ETAILE STE	CERCETE AL-10 ETERATO FICID IN DISEASE STRIPS, RETLECT EST C VICE PROGRES ENGINE IN RESEARCH STOTES PROFES		Han-hours	
Procedure	?*comical requirements	Pault corrects		
D. Remove fine filtering element	frames Nos 25 - 27 (see Fig. 20, Ref. Vo. 1); filter lived in fin, before Er-Sim pirecile booster (Fig. 25) — in return lime of hydrenlic booster system (sume filter 2 (see Fig. 20)			
4. That course filtering clasers and lear cup with clean gracline and blos th compressed air				
5. Inspect course filter and filter 5: Sake sure that game is clest and litered joints are insart 6: Install nes filtering element are rew in filter sileys	Coarse filtering eleant should be clean am Tree from dents and deterioration of soldered joints. has renoring overse filter be care- ful but a second	If dirt receips in 1	Milter coppes	
7. Lock filter with EE-0.0 wire wipe filter externally	ful not to drawge it.			

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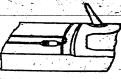
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FIG. 21. REMOVAL OF PARE FILTERING SI. SHARET
[4] ware of Five below removat of the blanche planets; the store above the direction in which the
filter about he shield by removal; (b) eyes of Plane above.



PIC. 22. POSITION OF OUTER CIRCULATION LINE." FILTER 1179-4 OF MAIN HYDRAULIC SYSTEM PILES SER-36-22

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FC 21. POSITION OF MAIN INTERCLIC SYSTEM PRESSURE LIME FILTER OF MICHAELT ALLERS OF MICHAELT PRESSURE LIME FILTER OF MICHAELT ALLERS OF MICHAELT PRESSURE ALLERS OF MICHAELT PRESSURE ALLERS OF MICHAELT PROSSESS AND MICHAELT P

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BOARLE STEE	SERIO O LIGARITATION REPORTED IN SING	upile systems, emplem- remaine system plicars	Man-Line Fedulates - Jin
2rood av	Pechnical requirements.	Poult carreet	den .
2. Install through commercions, in place of recoved throttles in anti-cours dector control lines 3. Propers engine jet normic flap control system for ground speration with engine increments in accordance with	hydraulic fluid Kotes: The following equipment shall be used for washing hydraulic systems: Let of washing filters		
4. Charge hydrenlic systems with fresh or filtered finid	el-ll, life-t and guise filter of return line in kylmilic boostar system (these are taken from mintenance hit). Hashing filters differ from operating cases (with the exception of game		

5. Consect ground gusp to aircraft connections of sain hydralic system 6. Consect ground alsotted power supply source, turns on Strains MITTER (MITTERS system and all circuit-breakers of telescif and landing equip-

7. Incres ground hydraulic pump and pump finial through sain hydraulic system To this end:

(a) retract and extent leading gent flaps, air brakes and anti-carge abut-ters 10 to 12 times

Tasking filters and through connections should be painted red, and certifon flags should

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o 12 times in succession at Filips
10520 (CTROPHE MUDPIN), MINISTE PRESENTED (EXEMPTINE) COPART and LITTURE STREETED (MANCHELIFIED COPART) cositions
(c) retract landing year and flaps, reend air brakes and anti-surge abut-WARNING .. Then retracting and extending (d) diseages ground hydralic pump; (e) turn or circuit-breaker and inge-over switch BOOSES SISTES DIS-REPORTER (CHIE, DIGT. CHIESE) and landing sear, flaps, etc., take all processions recom-sensed in Item 4 of Section Training Mir-10 fluid from hydraulic systems" we control stick forward and beckward reduce main system pressure to merci.

(f) turn off storage battery and rouit-breaker 6. Connect ground hydraulic pump aircraft connections of hydraulic stor system 9. Turn on STORAGE ELITEPY (ANDRE-T) charge-over smitch and circuitwife hooster control system

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Gainial Designation

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Sheet 15 In 20 steels

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CEASURG ANT-10 EURAULIC FAULD IS ATTRAULIC STRIPES, REPLACEMENT REPRESENTATION STREET, OF PIER PULLSHIPS MANUFIES IN MIDRAULIC STOTES FILTERS regulred . to

10. Sprage ground hydraulic gamp 11. Turn on housest system bisons-EXPITES change-over setted and yang fined through atterna hydraulic housten lines during 5 to 6 minutes manipulat-ing allores during thick over antis-

ing alleron control stick over entire operating range.

More alleron control stick right and left at a rate of 25 to 50 full-range resettings per one nimits.

12. Purp hydraulic finid through stabiliser hydraulic booster line in the course of 5 to 6 minutes by operating stabiliser control handle, flower stabiliser control handle, flower stabiliser control handle flower and backward at a rate of 10 to 12 full-range resettings per one minute. Invise range resettings per one minute. runge resettings per one simute, During these manipulations APT-33 automatic transmission ratio controller should be

set at its Migger are
13. Disensige ground hydrenlic pusp
14. Reince pressure to soro by

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50X1-HUM Supplement to Inspection Guide No. 21 PROCESS CTARS So. 13 CHARGING ANT-IL EXPRAINED FUNDS IN EXPRAINED SESTEMS, PERSONAL REST OF PURE PROPERTY IN EXPRESSION SESTEM FUNDS. MIDRAULIC SISTEM required - 3.10 Technical requirements 15. Turn off change-over switches, circuit-breakers and electric supply 16. Drain AUT-10 hydreulic finid in accordance with 10ss 7 through 15 of cities "Preinigs AUT-10 finid from the company of the co ordrevillo systems 17. Denount washing filters, dis-needle then and inspect for cleanness 18. Re-install operating filters 17-11, 1176-4 and cause filter of hydren 17 booster system recurs line. Safety intections with locking wire, 179 108-0.8 Sould dirt, sand or other foreign author be detected in filtering elements of 67-11 and 1170-4 filters or game filter of hybralic booster system return line, such dirty filters, re-install that and re-man the given hybralic system. The ICK-0.8

15. Resorve washing through connections and re-install throttles of anti50 shutters and intels come control
Les. Safety connections with ECK-0.8 cting wire Coursing Princulic Systems Titl ATT-10 Fluid 1. Chert amount of mitrogen, and, if Mitrogen pressure in spherical and cylindrical hydraulic accumulate abould be equal to 50° kg/cm². a satures to especity



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Applement to Reportise Strick Fey 23	PROCESS CHARS	Fo. 33	In 20 shoets Sheet 17
SYDRAULIC SYSTEM	CENSURG AND-TO ENTERING LINED IN BAC		Nan-hours required - 5.10
Protective	fectmical requirements	Fault correc	tica
2. Open covers' (on fuselage) of access belas leading to hydraulia received filler meds and, if preserved has not been denounted and washed, wiples each and reserved filler meds with else cloth (for hydraulia reserved a with else cloth (for hydraulia of ANT-10 hydraulia finid)). Fill both sections of hydraulia finid (fill approximately 8.5 lives into mai system section, and approximately 6.5 lives in the first proximately 6.5 lives of hydraulia finid into hydraulia footour system section; asset in stick for measurements)	(a) AMT-10 fluid to be used in hydralic system should be hept in aperial sealed continers; (b) prior to filling charging cart with AMT-10 fluid from special containers, throughly sipe filler nocks of charging cart and special containers with clean cloth sake absolutely sure that to traces of dirt remain on them; (c) fill AMT-10 fluid into charging cart in closed location taking		
Total amount of hydraulic fluid in both systems and hydraulic reservoir is about 50 littes 4. Connect ground electric power supply starce. In cockpits turn on original starces, the cockpits furn on original starces, change or laming gear, flags and notice, anti-surge interes, come, taging startle flags and hydraulic broaters.	all dust preventive precautions; (d) before opening hydralite reservoir thoroughly wips filler neck and cap and wash charging gun tily in clean gasoline;		

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Supplement to Inspection Guide No. 21	PROTES CHAR	Fo. 13	In 20 sheets Sheet, 18
EXPERIMENT STREET	CARGO ANT-10 EMETETO FIND IN EA	MAINIC SIMPRO, REPLACE.	Yes-hours required - 3,20
Procedure	Technical requirements	Fault corre	
5. Flace landing gear control valve handle to EFFRATICS (ESDUCK) and press LANDING (NOGARM) button at flap control panel of left-hand hordsourcat consols 6. Connect-ground pump to aircraft connections of both hydraulic systems 7. Nagage ground hydraulic pump	filler neck - wiped		
and build up service (operating) pressur in system. Reduce pressure to sero by operating sinerali control stick 8. Open (in turn) filler necks of hydrollic reservoir and add ANI-10 hydrollic filld into reservoir	in a company (**) 10		
9. Purp fluid through main hydraulic system and hydraulic booster system, fo this end: (e) initiate 10 or 12 retraction- extension cycles of landing gear, air brakes, files, onti-surge shutters and engine nozzle flaps; (b) acre sirveraft control stick 1500 for the ever entire operating ranges			

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Deplecent to Inspection	F200538 02487	So13	Is 20 abouts Shoot 19	50X1-HU	JIVI
BURNING STREET	CENSURG AND ADDRESS OF THE PARTY OF T	QUELTO SESTEMS. REPLACE- TIDEA (LIC STOTEM PILITERS	Man-hours required - 3.10) /
Procedure	fockmical requirements	Pault corre	tion		
Leave landing goar in extended po- sition, and flaps, air brains, come, anti-surge shutters and engine jet norate flaps - in retracted position 10. Fam fluid through movement turning mechanism (if any). To this end:				Adding the See and	
(a) reduce pressure in assessed about strut to 5 - 7 kg/cm ² ; (b) engage mosested turning mecha- mism; (c) apply foot tars 10 to 12 times (blage strut with mitrogen and			- Grad Grave Victor -		-
discurges accepted turning rectaring. 11. Discusses ground hydraulic pump and reduce pressure in systems by specifing aircraft common stick.	Reduction of pressure in hydrau- lic booster system to 155 *10 kg/cs² should be indicated by illumination of 2000min (hydraulat) indicator				
12. Proper FIRE USE (SICOCALE CALCULATE) attracts breaker on right-hand form tal cample	light and should result in successic empacement of ED-27 pump (pump engagement will be sudible)				~
2				N.	

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Supplement to Imprection Guide No. 21	PROCESS CRAE	T Bo. 13 Is 20 sheets
HIDRAULIC SISTEM	MANUAL OF ADDRESS AND ADDRESS OF THE STATE OF ADDRESS OF THE STATE OF	BITT TO STATE OF
Procedure	Technical requirements	Fealt correction
23. Disençage pump unit circuit- breaker and reduce presents in Agreem to sere by soring aircraft control still from one extreme position over to the other 14. Check fluid level in hydraulic reservoir using cap-neuted dip sticks or glass gauges on reservoir of closed filling type	With landing gear extended and air braces, flaps and come retracted	If find level is lower or higher than specified, and or drain AX-10 find turning motion valves for ground pump for providing the state of the state
25. Close filler neck caps of hydra		necessary to open filler macks of reservoir
lic reservoir and wipe them with clean cloth		
Ground hydraulic pump unit	Special grand Flat-mose pli	7001s x 72 and 74 x 27 b, 19 ms and un order-allitated screen



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Sarplement to Inspection Oction No. 21	PROTESS SELEC	٠	In 2 sheets Short 1
MOSATLIC STEPM	TOR ADDITIONS COMPANY OF CILIDADA	SYP-AULIO ACCIMILATORS	Nam-tours required = 1.3
Procedure	Technical requirements	Pault correct	tion
l. At fuselage port side (sear fin)			
men cover of access hole leading to			
relindrical hydraclic accumulators		!	
2. Shinch and disconnect pipelines			
non indraulic accumulators of bydraulic.			•
restess. Flux open onis of pipes and con-	the same of the sa	and the transfer of the	e • ≰ ₂ <u></u>
sections of hydraulic accumulator	İ	.	
3. Descript hydreulic ecountletors		1	
ros sircreft (if brimalic accusulators	į .		
ear no identification marks as to which	į	1	•
grates they believe to, make suc; marce)	t	1	
4. Turn bydreulie secural store way	. If sore there its course, of ME [-16	1	•
ir chember connections down and drain	fluid is found scennlates in air		
saked-in AFP-10 brirenite fluit from-	chamber this testifies to intolerably		
ofth chambers	poor sirtigatness of scaling curs, in	1	
<u> </u>			
	this case hydraulic accumulator is		and the second
5. Perinstall hydranlic accumulators	AUDISCE, to replacement		
m sirerest, attach them with yeles and			
lock in position			
Note. Besinetall heiralic grounder	Housted at one right should be		•
tore surjectly in secondaries	bytractic enomalator of sain hydradia		
20114. 351121512	spaces, and at the least - apprentic	Ī	•
	secondisto, of hydratic booster	!	
	SYSTEM		
		!	

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Experience September 1997 Procedure Procedur	Samplement to Inspection Saids No.21	PB 0	C383 C2422	Bo. 1A	In 2 sheets Sheet 2
Frontiers Frontiers Found requirements Found correction 6. Cannot pipelines to hydrentie communitors and secure them in position 1th locking firtings 7. Built up working (service) prec- ure in hydraulic systems and make sure hat there is no loakage of LNT-LD product fluid from pipeline connections nd joints Locassories Tools Envediver for cross-elited screen Fint-cose pliers	ETPHAULIC SYSTEM	CHECKIN LOVE COM	POR ADDRESSMEN	STYPAINING ADDISTRATORS	
Accessories Acces	Procedure	Technica!	sedzīvesenīre.	Pault correct	
Accessories Tools Servedriver for cross-slitted serves Flat-cose pliers	occurators and assure them in position its locking fittings 7. Build up working (service) prepare in hydraulic systems and make sure that there is no leakage of MIT-10 privatic fluid from pipiline commention.				
Accessories Tools Europeiver for cross-slitted scross Flat-moss pliers	ai joines				-
Servedriver for cross-slitted screen Plat-pose pliers					
Flat-goes pliers	Accessories			Toels	
	\ \tag{\tau} \ \tau \ \tag{\tau} \ \tau \ \tag{\tau} \ \tau \tau		Flat-cose pli	ers	22

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Transport

Supplement to Inspection Suide to.21	PROCESS CHARE		Im 2 sheets
Athenual Single	DESERVICE AND RESCHE OF CRUIK HE	COUNTES IN	required - 1.30
Procedure	Technical requirements	Fault corre	ction
L. On pure side of fin serve est- ecross and remove cover of access mile leading to N-OLE hydrealize booster of exhibitor 2. Shlack inlat connections of ac hydrealize system and of hydrealize booster, yetten, and serves out connections 3. Fithires gaze filters and in- them. Eaks ware that collared joints of filters are intact	in the state and in the class and in-	descried in filter, rest becater any transfer it alon for classembly at Silter with danage teriorated soldered jo	sove hydreniis t to repair work- nd checking ad game or dee.
4. On undersurface of right and I outer sing penals turn out acrees and some covers of scores holes which lead to BJ-35 plantealth boosters of atleres 5. Thirds inlet connections of hydremlic boosters and surve out those connections 6. Proove and inspect gauge fills 7. Becknowled fillows, store one than anyth hare and lock then		replaced	

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Supplement to Impaction dries No.21	PROCESS CHAR		In 2 charge Shoat 1 Nan-hugg required - 1,2	1-HUM
Precedure	Tochnical requirements	Fault corr	ection :	
I. Thleet valor mats of pipes coupled to unit and unacree these natural pipe remain; from pressure regularor must should be disconnected as pressure regulator end, and unit should be democrated complete with this pipe) 2. Serve off two auts of bolts w	year			
comple unit fastering yokes 3. Carefully bring yokes spart at resove unit 4. Homove spring ring and wither dust filter from unit 5. Wash filter in clean gasoline				
and dry it 6. Frais condensate from unit be 7. Be-install filter in bottle a fit spring ring right in place 8. Be-install unit (arrow na bot	nd.			
should be directed upward), sake it in in yokes, conset pipes and lock unit note of pipes				

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Tarina Language

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In 7 sheets Surplement to Imp PROCESS CIART So, 17 CERCIPIS EXPERIENC SYSTEM FOR INTERVAL AND EXPERIENCE. EXPANDIC SISTEM طميتمر - 61. Fault correction fechales) requirements 1. Jack up eiscraft watil wheels er ground

2. Check level of AKT-10 fluid in 444 hydraulio finid if its level's During internal airtightness ock of main hydralic systes hydranhydraulic reservoir sections of systems (if systems were not filled or replanial ed with AET-10 hydraulic field right bebelow reference graduation marks lic pressure in hydraulic bocster aya-ten should be zero Total Carles Sales (2002) Level of ANC-10 fluid in bydrenfore maintenance operations) lie reservoir sections should be

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 \tilde{h} ,

3. Grack attrogen pressure in miators with th spectical hydrenic accu splenich truthic arcumentors with a
and of special firture (if this check
was not performed foring previous
scheduled inspection)
A. Check position of cross-feed

. .

Internal Airefecturess theck of Rate Research System 5. Descent out-return value install-ed in delivery line before sparious tydrealic economictor (un furelego sterbound side between france Sto 26 and 27:

Cross-feed cock should be closed (ground safety lock BS-9544-0) should

within reference graduations on dig-

Fitregen pressure about the at least 50 2 5 kg/cm2

stick

Ta aircraft of latent certes (beginning with Dermin St. Darwin St. Darwin) Deginning with Cernin Delivations and hymnelic explorate has to present the property of the pr

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Surplement to Inspection. Guide Ho.21-	PROCEST CRAY	7 Bo. 17	Ze 7 state Sheet 2
ETDRAULIC STEED	CHECKING STORAGLIC STSTARS 102 IF	CERT AND ECCEPTAL	Man-hours
Procedure	Technical requirements		required - 3,40
	- Indicate La Juire Jents	Pault corre	etice :
6. Instell special maintenance optor 30,78-7801-1050 in place of demonstrate accordance valve.	valve isolates bydraulic accumulator from all communers but hydraulic boosters and engine jet nossle flaps control system		
- de de la	Pressure gauge transmitter of sain hydraulic system is impulied after non-return valve and therefore		
	after engine stoppage or disconnection of ground hydreulic year pressure in main hydraulic system is not indicate.		-
	ed by cabin-counted pressure gauge. With this arrangement in is possible		
	to relieve preserve in main system only with the mid of hydraulia boosters. Therefore internal mir-		
	tightness check of main hydraulic system calls for substitution of min-		
	tenance simpter No.7e-7801-1050 for Mon-return valve (as instructed in Items 5 and 6 above)		
7. Commont ground hydraulic supply	7 mm 7 mm 9 mme)		
ig Trainc System (on functions of a side)			

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Supplement to Inspection Smile No.71	PROCESS CHART	,10. 17	In 7 sheets Sheet 3
SECRETE SINGS	CHECKIES KIDEARLIC STRIKES FOR LITE	IDEAL AND MITTERAL	Ean-bours required - 0.40
P	Technical requirements	Fault corre	etion
8. Open the following circuits are shore on vertical panel of right-hom consoler L.G. indication, air brakes, sydmatic booster areas disentanents, hydraulic system indication and L.G.			
flegs 9. Eth working hydraulic fluid im main system under pressure impact all joints to make sure that system is air- right externally 10. To same my working fluid (in	equal to 210 10 kg/ca. Leaving	In case of poor and to of faulty joint	
cold weather) and to symmete air from hydremlic system sperate units of hy- dremlic system as follows:	in eirereft count to perform exten- sion and retraction cycles of hy- draulically operated units sales sure		
(a) retrect and extend landing gas flare, air brakes, come, anti-surge that term and angine jet notale flare 10 - 12 times;	r, that Sobody sores in close premisity to of landing gear, flaps and air brakes 2. Buring estuation of hydraulis units, ar inspector should be stand-		
(b) new aircraft control stick forward and beckmard at anxious possible rate 20 = 30 times; (c) turn i.e. noembel struct with turning mechanism engaged (an internal	3. During operation of ansewheel		
equipped with turning secretion) 15 - 16 times	105-71/a ²		

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6014c 86.21	PRUCESS CEARE	Bo. 22	20 7 shorts
NYDERULIC STOPEN	CHECKING STREETLIC STREETS POR IN	HEAL IS EVERIL	San-cours
Procedure	Zechnical requirements	7sult corre-	seguired - 0,40
11. Furth up sorring pressure in hydreulic system and place unit control		- Ant carry	tion.
(a) allered hydraulic houses and			
(b) magazinel start comics			
niss control cock (if any) - to try (Estat (thry); (c) h.c. cocc - to Estrant (FD-			
TRAFFIC); (d) flep control cocs - to RETRAFFIC (MD-RHO);		• *	
(e) sasi-sume shatter coursel		ere en jagej	. to at the second of
17. Estatein sorking pressure in	Aircraft gontrol stick should be		
and the most bidreulte pusp of ground	fixed in neutral position. Pressure in tydraulic booster system should be squal to sero		
13. Determine time of pressure drop to z 180 to 150 ke/cm² in main hydraulic of the to the total and the control of the total and the total an	Time of pressure drop from 180 to 150 kg/cm² in main hydraulic system		
Talet	should be not less than 10 seconds		
months and internal mirelgathers			

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Supplement to Inspection Onide No.21	PROCESS CEARS	Bc. 17	In 7 shorts Sheet 5
EYDRATLIC SYSTEM	CHECKER STERRILLIC SISTEMS FOR INT	estal ard extensial	sednyier - 64 gen-rome
Stocogate	Technical requirements	Fault correc	ilee .
(with the exception of alleron hydraulie			
booster ocutrol sock which should be (27)			
15. With main hydraulic system under			
working pressure, return cocks to post-	*		
tions indicated in Point 11, and engage			
aileren hydrealis booster costrol sock		가 하다 되었다. 본숙연	화사 사람들이
16. Operate aircraft control cock	أقلعت فينتنفنا المالا		المقدمة المدادية
over entire operating range from right to			
left and back again; accomplish 20 to 30			
full cycles at sexisum possible rate	·		
17. Disengage ground hydraulic pump	Time during which main hydraulic	•	
and reasure time during which pressure in	system pressure arops from 350	1	
system drops from 120 to 150 kg/cm2 with	to 150 kg/m2 amound be at least 5 sec	1	
alleron hydraulic boosters engaged			
18. Operate aircraft control stick			
to reduce pressure in hydraulic system to	حزف خرجت المستان المست	يفنفندن ويتنسبنا	
sero and disconnect ground hydraulic posts			
19. then through with check, remove			우리는 사람이
maintenance adapter and re-install non-			
tegata asjás			
lote. Then re-installing non-return where he stare to position is with stare on water holy directly of treatment and return in the star and a secural and return in the star and a secural and a secur			



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Supplement to Inspection P265338 CHART 80. 27 Guide #0.21 In 7 meets Short & ETERAULIC SYSTEM CRECIES STREET, IC STRIBES POR DETRAIL AND RECESSED ALC: CHARGE Technical requirements Femit correction 20. Check all ron-return valve-to -pipeline connections for airtightness Airtightees Coack of Refreshte Booster System 1. Comnect homes from ground hydraulic bear to hydraulic booster system connections on funcing per side 2. Build up torking pressure in sys-tem and examine commentions and feature Pressure in hydraulic booster
exerter should be 210 * 50 kg/m² Bo
letings of AVF-10 fluid at commention for externa, airtightness and joints of pipelines and units aberi on tolerated Operating from cockpit, engage elleron boosters and move attracts con-rol stick forward and backward and from casit un right at anximum possible rate Sote. The following assumts of MET-10 fluid are allowed to be speesed out at mer-ing surfaces during opera-tion of Ef-45 and at-10 brishing befores: (a. m-51M percen-2 cauca per one operating hour A. Piece mineraft control stick to many) position and disengage ground rkali dien At parking telerated learner is up

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Supplement to Inspection	P2001	. 83 CRAST	\$0. 17	In 7 abouts	
BYDPATALO BIFFER	CHECKING RESIDENCE	AUTOGRADA	ERAL AST ETERAL	Hen-hours	
Procedure	Technical requ	dreserte	Pault corre		
		breaters one operating drops per	booster and up to 1 on,	on for 25-45	
5. Heature time required for syste pressure to drop from 180 to 150 kg/cs ² 5. Build to working pressure in		during not			
system and disemptes atlants hydramile bousters 7. Disemptes ground systemize comp and sessure time during maids by arenize system pressure drops from 150 to 150 kg/ms ²	Fitt afterna kydn disergaged, time of pro from 150 to 150 kg/cm ²	19827s 1700		1 10 10 10 10 10	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
5. Relieve presents in system to noru, Maconnect ground hydraulic pump	least 35 sec	الله الله			
Accessories			Tools		
Firmer for testing nimogen present traclature Ground hydraclic installation	a hydrealic ec-	Flat-cose pli Screedriver	0.76		

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Supplement to Inspection Suide Se.21	PEOGRASSERART		Is 4 sheets Sheet 2
ETDAATLIS SISTER	CENTRAL PROPERTY FOR THAT EZ-Z/	YOR RELEABLE	Pequired - Q1
Procedure	Sechnical requirements	Fault correct	lies ,
7. Diseasage ground hydraulic pusp ad smoothly nove aircraft control stick acheant and forward to check beginning f automatic operation of E0-27 pump uni-	to le5 * 10 kg/cm2 2005712 light		
	engage automatically Regument of EU-27 pump unit shall be ascertained surelly, by noise	ويد محت مطفقات	
5. Diseases year cuit and ailerm preside boosters, and operate aircraft matrol stick to reduce pressure in br- realit booster grates to 100 kg/m²	of electric motor and pump		•
9. Set aircraft scored stick votral and, holding it fined, engage asp matt. Note that during which pres- are built up by En-27 must increases rea 130 to 170 kg/cm ² 10. km pusp unit for 50 seconds	Site aircraft control stick in first position and alieron hydraulic boostars disengated pressure in hy- dramine booster system should increase from 130 to 170 kg/cs² during not longer than 7 seconds If in the source of 30-sec. ope- ration of pump unit pressure of such-		# P
	ing fluid in hydrolite becater system reading stable at 150 gr/cm2 tips means test safety valve installed in purp unit line and purp unit MLZ		

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Supplement to Inspection	PROCESS CEAR		
ETURATULE STETEM	CHECUM ROMANDI POR MAR AND	Po. 18	In absets
Procedure	GENERAL CO.	or For Belling	required - 0.
11. Eaving checked ED-27 pump unit	Pechnical requirements	Peult carrec	tien
Training houses			
12. Eithout disenseging pusp unit	At the moment hydrenlic booster		
dictal a stactic mains. As the man	I WASHE DIVISION TORRIBOR THE LOCAL Z		
(a) engage ground hydraulic pump; (b) build up sorting pressure in	pump unit should be sutomatically dis emgaged (disengagement shall be deter		
porculic beaster system	and by discontinuation of		
Botes: 1. It order to amount	The same of the sa		rafferijn va
of Kings	- 1 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -	of FE-27	cormal operation
checks of poor dilling ground	y awar adoling he hat year at		
engaged for continuous operation for not longer than	i .	is section; to make	
2. Rezember that with E3-34	•		
Automatically attendanced	हात्ता वर्षा भागा हातून अपूर्वा र वैत्राति । प्राप्त	or 165 +10 kg/ca2 and as	Protects.
that should be diese El-27		THE OF LOT OVER 100 PE	_2
ally by complex manual		Por relay characters Cordification of relays us	stice refer to
3. Sherrency minn water at a		1	•••
about 15 minutes am authori			
to replacement			ļ÷ satel
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	Eupjiment to Inspection		,		
		PROCESETIE	5 Sc. 19	ir t merte	7
	MIDRAULIC STOPES	CHECKING HI- 34 HID/AUTHO PRINTS. I BOOSTERS AND STAFFILIZES RIDGET	Me Romana	Sheet :	-
	Procedure	THE REAL PROPERTY OF		recurred - 0.ec	
		Technical requirements	Fault correc	tion	· [
	1. Check mitrogen pressure is				1 -
į	spherical hydraulic accumulators (if it				ا
	has not been checked before) and cylin- drical hydraulic accumulators with the				1
1	aid of pressure gauges installed at				1
1	Tunelage port aide				
1	Z. Check air brakes for tight fit-		والمستنطقة	12 12 13 1	I
ì	one, so reserve akin	•	i		: . ·
į	3. In order to prevent "sticking"	Sith sare pressure is both by-			
į.	of hydraulic booster control walve place blocks in intermediate positions make	distilic systems, tress, and	!		
	THE DELLEY SIGNETICS MANUAL AND	GERCAL BOX STREETICAL PROPERTY.			
i	geraulic horsters are engaged	The world will be 50 to be formed the			
:		brace panels should be tightly presse to fuselage skin	🤞 to tal Paris to the co	orani ya sabiya	
	4. Stert engine. Then pressure ap-	Cross-feed cook should be closed			
	THE AMERICAN CONTRACTOR	could be closed		Co pos 71s	
٠	" indicated by pressure gauge pointers ich will began their trevel from sero) which to resises also		ં :
÷	unts) turn off Allends Boostess (Exc-		" The same of the	Amban an an	
:	The Order to pre-		lage skin and install scr close cross-feed cook	er ciasca;	
	to to trouble fluid flow through how		1		41.0
	the charter thring chark-out of				
	· · ·				
	. fattitte proseure Bauges check	Inca H.F. rotor reaches 25% rat-			
	te of presoure focresse in brareulic	ing, pressure in both hydrealic sys-			'



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	and the second second	
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- Serie Mo.21	FROCERS CRAST	No. 29 In 6 sherts
RYPRAULIC SYSTEM	CONTRO ED- M BIDGATHO PROPS, AT BOOF ESS IND STABLISTING BYDRAFUL FOR EMILAND COMMATION	
Procedure	fechnical requirements	Fault correction
	tems (as indicated by pressure ganges) should rise from 0 to 210 *5 kg/cm² (keep aircraft control stick setion-	
6. Coach operation of ED-1: pure hydrolin booster avates; to this end: at MS right of segint turn in silent	less during pressure rise) Pressure in hydraulic hooster syster should not fail below 150 as/cs ² . If it is so, 85-34 pm.	If pressure in hydraulic boosts:
BROTES: switch aim several tires more sizeraft control which diagonally or maximum porbathe rate	of lydrollic boreter system in theme throught prival extent should not exactly, without market or fersing. Without prairies of	FT=> runc vith new one
7. Check operation of E8-34 peop of	loading mechanisms should be percep-	
eath hydraulic system, To this end: (a) at engine rope, of 50% normal rating press Historichter & Kittle Extra button at right-historic security.	Pressure in sain hydronlin	If pressure in meta hydraulic system drops below 180 by/cm², rejini
it is depressed position and more affi- oraft common action several times dispo- nally at maximum possible mains. Fifth doing this, which operation of hydraulie	min introduce system should be	Е-34 ракр
processes an east operation of hydrestic processes are east principle system and		
1		

Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM "upplement to Inspection buide Fe. 2) at 3 HYDRAULIC STETZE Pault correction 847379751 NEST:

1. Sontinuous ground running
time of engine at H.P. rotor
F.p.m. lower than 506 in icing
conditions (at temperatures of
0 to minus 10°C) should not
occased 5 winnian exceed 5 ginutes 2. Rever operate elleron by-fraulic booster switch with fraulto booster switch with observice supply on said to pres-sure in hydraulic systems un-lear this is extremely urgan. This to general rule that atlerom hydraulic booster switch should be always GR Price and Coite of Errousic Strings
(a) Griculic Regater System i. On foreign port side and wing covers of access holes Lesing to 8 SECRET/NO FOREIGN DISSEM

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Supplement to Inspection	PROCESS CHART	No. 29	lm 6 shrets Sheet 4		
NIGATIC SISES	POSTER AT STREET, THE BOOSTER AND STREET, AND STREET, AND STREET, STRE	OF EVICAULIC . BOOSTEES	Ren-hours required - 0		•
Procedura	Technical requirements	Pault corr	ection	4 8	-
2. Build up working presence in hy- remilic booster system from ground hy- remilic pump. 3. Estimate pressure in system manny at least 10 minutes 4. Obsarving through open mosess often import externally pipulife in:	Lankage of ANT-10 fluid in con- mertions and seals shall not be	Should out-of-roun	dness be over !	*	•
mit commentions and (dists vir sections unpubplicable bosters) for lessure of Minute stude	rake sure that fest testions of pice- lames are round fout-of-roundress should not exceed (5). Tipes are allowed no by wors lown to not some than (a) as one;			1. 3 c. net et net	_
). Felieve pressure in system by operation of almorate control stick	During pipeline mounting see to it that pipes are not stressed. With pipe discommented, separation of pipe				
6. Clore acress holes with perpentive covers and secure than with acress or looks.	from connection should be not ever I mm. Be absolutely ears that pipe centre line is co-centric with centre line of connection				

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Supplement to Traspection Guide Bo. 21 CERCITY EN-M STRUCTURE PRIPE, ATTRACT FRANCISCO ESCURITE TRACTICE ESCURITE PROPERTY POR ENLIGHES OFFERING EYPRAULIC SISTEM Technical requirements (b) Emin Eximalic System
1. On functage starboard side
and wing open covers of access holes Peult correction leading to accessories (units) of main hydraulic system 2. Build up working pressure in main hydraulic system from ground hyd-This observes the proof of the following strong through open access holes cannot pipeline and unit joints for external airtichness in the following sections of sain hydraulic system (A) to measure and attention Pressure should be maintained in control cooks suring at least 10 minuter.

Thack by outer inspection in (a) L.G. retraction and extension eystems, in three positions of L.C. ron-trol cocks growant (MEGPARES), lines: pump-cocks; croks-cylinders; pump-hydranlic boosters of delivery and return lines. RETURNION (FEORED), and EXPENSION Check above mentioned sections o hydraulic syntem simuliameously, Hake (BMDER);
(b) flap control system, with control cook in two positions: ETTRICTED (JEPAES) and LARDING (SOCAIRA);
(c) air brake system, with control cook in two positions: EXTRICT (ENTERN) and STRUCTER (JEPAES)
(c) system of anti-range systems, sure that joints and commections of system pipelines and units above no traces of fluid leakage (Company over in two positions: from (Company);

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Supplement to Inspection Suits So. 21	7200285 CE1	Rv? No. 19	In 6 aports Sheet 5
Firmulo Sister	CHISTING HILL REPEATAL FIRM BOSSTERS ARE STABILIZED OF ROS RELIGIES OF	PVERSONE SINSTERS	zedniz-c - 0's
Procedure	Technical requirements	Fault corre	Sting
(e) awalls come system, in three continues ESTRATEM (NETE), MINE- LOS I (BELIES I) and MINESTON II (Bi- NES II):			
(f) jet montle finje system, with matrol cock in two positions? (6) mosewheel turning mechanism, ith control cock in position INACT			
Errura); (1) supply line of alleron and sta- liser briralic boosters A. Es-install access hole covers			
farier than in place mith surers or the			
Aspessories		Pools:	
Ground electric power sippl	7 Seres	oriver for cross-slitted ;-purpose flat-uppe pliers	Boreus

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Anisia O Roof

SECRET/NO FOREIGN DISSEM FRECESS CRART 36, 20 Galde He.21 CHECUM ALTERNA NATIONAL IN PRODUCT EMBELLING HIDRIDLIC SYSTEM Fault correction l. Open left- and right-cide covers of access holes leeding to apherical hy-draulic accumulators installed between frames See 22 and 25 2. Unlook and acres off cape from Z. United and serve to consulater ring valves connections or squarestate gauge 3. Sorve nitrogen pressure gauge Sitrogen pressure in spherical sormection and check nitrogen pressure in sure in hydreulic securalistics by pressure gauge anount to 50 kg/cm² Fixture for charging L.G. shock struts and hydreulic accuralators with nitrogen and for checking nitrogen driver. pressure in thes (72-7804-256) elited argentia and

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SECRET/NO FOREIGN DISSEM 50X1-HUM (upplement to Imagention - 5 m Suide No. 21 240243 CHARTING 21 STITUTE STATES Penit correction 1. Lift aircraft until its whools clear grount; so this with the eid of hy Enving lifted elegraft fix op rating rods of hydraulic jacks with the aid of locking elseves draulto jacks installed under sings and 2. Sask joints of main and nesewhere 2.0. strute with gasolane and blow them with compressed air (Pigs 25 and 26) Joints and parts of main and nonembed L.G. struts about be cla sepecially at welded joints and ಕ್ಷಾಕ್ಷ್ಮ ಕ್ಷ್ಮಾಪ್ತ್ರಿಸ್ಟ್ರಿಸ್ಟ್ರಿಸ್ಟ್ರಿಸ್ಟ್ ಕ್ಷ್ಮಿಸ್ಟ್ರಿಸ್ಟ್ರಿಸ್ಟ್ ಕ್ಷ್ಮಿಸ್ಟ್ರಿಸ್ಟ್ ಕ್ಷ್ಮಿಸ್ಟ್ ಕ್ಷ್ಮಿಸ್ಟ್ ಕ್ಷ 3. Using magnifier glass exacine parts of mair and nonemberl lab, atrute Creeze in foints and parts of Savald oracis be suspected. strute shall not be tolerated. Replace strute and underblies if they paint from examined area with antwent and cherk with paint method. Should this se-thod prove ineffective reason struct or part and test it with magna-flux nathod. and of main 1.0. strat turning rechaning Tor erroke. Pay special attention to the following places: (a) velded joints of parte; (b) passenger areas; (c) asle what of main L.G. strett, ear plug of wheel sheft turning manha 4. Press-charge L.G. strut hings rouse Sittings with BLADW-201 labries Joints shell be considered suf-ficiently lubricated if fresh lubri-If zo fresh labricant app clearances dervers assertly elements, clearances dervers assertly elements, such ant appears in clearances of joint intribution intes in parts with gustione 87 SECRET/NO FOREIGN DISSEM

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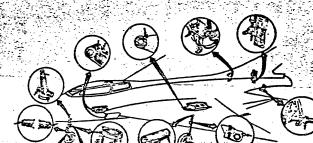


FIG TO LATOUT OF GREASE FOTTAL

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Janara Casa

The state of the s SECRET/NO FOREIGN DISSEM 50X1-HUM Supplement to Impention Guide Fo. 21 . FIDRAULIC STRIP Transfers Only MINTE-201 lubricant should be used for all L.C. assemblies. 5. Lower aircraft to ground with aid of jacks installed under wings follow: (a) build up counterpressure in hydreulic jacks; (b) release looking eleves of Before lowering aircraft set as gravity of sireraft, say start alm downward which will result in air-Epitrania: Sack for wing, \$200-00B (two Sacks) Refractio tack for fusciage nose section (\$200-00B) Iran (M-989)-00 Iran (M SECRET/NO FOREIGN DISSEM

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	CECKIEC TOTAL PLAYS OF L.C. ST	N3, 1003 MD	Han-bears required = 1.10
Procedure	Technical requirements	Fault corrects	•
l. See hydrenlie jacks to lift air-		Table 1 of the	
of the state of th			
2. Propare Special fixture for	1 - 기도관 회장 등 사용한 경험		
suring plays of L.C. strete and in-			· · · · · · · · · · · · · · · · · · ·
11 it mear L.G. strut wheel			1 子も支持を翻
. 3. Check total plays in longituding		If total play excee	-1a
lateral directions in main and mose-		ciffed values locate jo	100
el struts (Fig.28)	fluid pressure in min bydraulic		Cla cod cod
For measuring total play it is nece	system equals sero. Then an effort of	parts of this joint or c	TOTAL TOTAL
y to use dynamometer to move strut in	up to 20 kg is gradually applied to		Compage start
direction (forward), to bring moving	wheel axle (in both directions), total	1	- 1 Table 1
insted horizontal pin (set at zero) 1	oplay in main L.G. strut should be:	1	
el and to move wheel through dynamo- er in opposite directions while doing	(s) not over 8 mm in longitudina	1	
s read total play value by graduation			。2007年中華出版的
measuring fixture pin (See Pig. 28)		세계 (절환 사람들)	
25 25 25 25 25 25 25 25 25 25 25 25 25 2	rection. Total play of mosewheel stre		
	is both longitudinal and lateral directions abould not exceed 5 mm		。
4. Check plays in doors and fairing	Play of doors and fairings in	· 自然的 经基础 (1985)	
sain and asserbed L.G. strate	assaured at lower edges		
	The state of the s		27 生物化的對鍵
[2] 이번 생활되고 있는 기를 보냈다며		1	
			11.5

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Guida So.21	CHAIR TOTAL PLATS OF L.G.	STATE,	DOORS AND	Esn-bours
LISTING CEUR	PATRIKIS			required - 1.1
Procedure	Fechnical requirements	4.	7mlt correct	100
	Main L.G. strut wheel does	r should		
5. Operate hydraulic jacks to lower	play by not sore than 12 mm.			
rereft to ground	Bossbeel door should play	to 201		
	over 7 ma.			
	To play shall be tolerate	a sa		
	strut fairings and crosspicoes			3.8.第15年第
	Efforts applied to doors		THE COLUMN STATE OF THE PARTY O	والمنافزة المانية المنافرة
	fairings during play check-out	abould		
	be within 2 to 3 kg			
		1.5		
		- 1		
• •		,Sep	•	
。 1000年第100日		1	and and state of the second	THE THE WAY THE
				1 3 B
Charles and the second second second				
Accessories			Tanla	

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LANDING GRIR

CHARGE CLARACE SETIME SET OF FRIE No. 25

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CHARGE CLARACE SETIME SET OF FRIE No. 25

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CHARGE CLARACE SETIME SET OF FRIE No. 25

Frequency of Section of Friend Set of Section of Section of Friend Set of Section Section Section Set of Section
FIG. 29. MEARWING CLEARANT STITUTEN
STRY ON FRAME No. 1 AND NOSEWEEL
STRY OPERAN (SOLT NO. 2 AND NOSEWEEL
STRY OPERAN (SOTTON)
1- usuum uun oli matemaal ulus, 2 - may
no oli matemaal ulus, 2 - may
no oli matemaal ulus, 3 - mayoning all disauskuul
noonaa tulka 1 - mayoning all disauskuul

sally directle an attentive since absence of clearence will result in posalignment of hydronlic booster operating rod and ball lock. On the other hand, excessive clearence will result in impact loads on joint (b) to increase elegrance turn eyeolt out, and wice warse. 50X1-HUM

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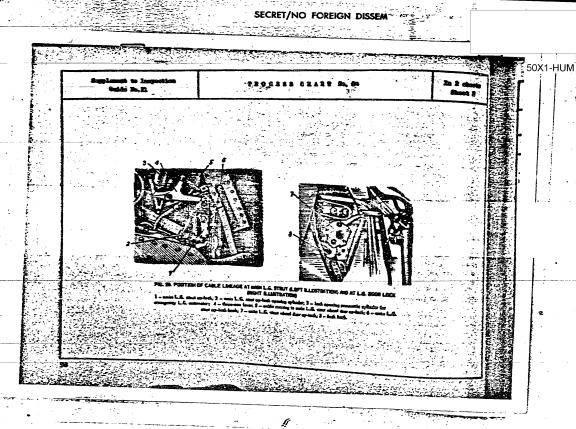
LADIES CRIS	CENTERS CLEARING ARTER 8709 CM		Sen-bours
Procedure	Technical requirements	Fault correction	
3. Believe mitrogen pressure in shock strut to 4 - 6 kg/cs ² 4. Engas strut turning mechanism and, with main hydrentic system under pressure, several times move foot control her in cockpit from one entreme.	Resembed should turn by 45 -50. Travel margin of turning lever about be at least 1° (linear equivalent 2.5 m by lag of lever)	Should eyebolt adju- correct foult, place pla thickness (0.3 - 0.5 mm) from No.6	to of remind
side position to the other 5. Fith turning mechanism disen- gaged, turn mosewheel manually in both directions as far as it will go 6. Fith control mechanism engaged, extend flaps			
2. Intract Slaps and helf-retract anding gear (full retraction is forbid- les since otherwise noembel strut Sai ing my get damaged) 3. Charge shock strut with mirroges 9. Operate hydraulic Jacks to lower			
Accessories Special fixture for measuring posses	theel turn angle Bet of feeler	fools blades, 0.05-2 ms, State S	

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Supplement to Inspection Guide So.21	PROCESS CRAE	2 Ho.2h In 2 scorts Short S.	
LANDING SPAR	CRECEING COMMITTION OF CONTROL CAR MAIN L.C. STEEZ LOCKE TO L.C.	'	
Precedure	?echnical requirements	Fault correction	
1. Figs control cables running from ain L.G. strut locks to L.G. door locks ith rags maked in gaseline 2. Impact cables externally and ove hand ever these to make sure that ables are seither rusted nor rugged	Cable should be free from corre- sion and regretness	In case of rust traces wipe affects ed section with rags souled in horsenes, then wipe it day and cost with grade [MATNA-201 Inbricant, If cable is regred (separate strands are broken) re- place cable. Cables with strand project- ing at textination should be replaced.	語の対象を
3. Check cable termination in and mgs for committing the state of the			
colts if they are som out by sore than 3,2 as deep Cost bolts with grade EMITES-201			
Accessories		Tools	
	Servedriver Flat-cose p Frenches, 5		
		27	



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VARIETY, INSTRUCTOR AND APPRICATION OF THIS, NOOMS APPRICATED NOTES AND OF THESE TOTALIS RESEARCING CONTAIN NOO BINGS JOINTS required - 0.25 Technical requirements



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Bottle with compressed air Labricant, grade IZATEK-201

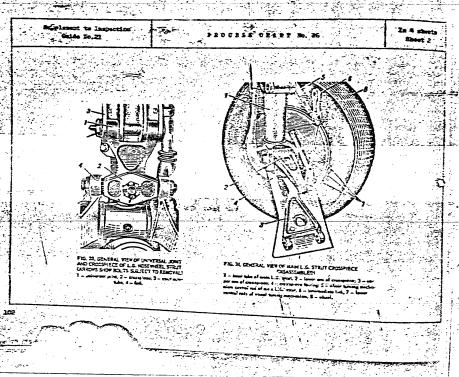
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Supplement to Impettion Guide Ho.21	PROCESS CHARE BO	.26	In 4 chorts Short 3
LANDING GREE	RECORD, VAREING AND LUBRICATION OF S	BOLES OF ROSERED.	Sas-hours
Procedure	Technical requirements	Zenit correct	
1. Use hydraulic jacks to lift air- craft so that wheels clear ground (if aircraft is not jacked up) 2. Uncotterpin and scree muts off	Inner lubrication spaces of belts		
>>its of L.G. nocembed universal joints (Fig. 33) 3. Remove bolts and universal joints that them in clean gasoline and blow with	and universal joints should be class.	In case of stiff re socket obtain easy rotat	totion of ball
ospressed air	Jaming	gasoline washing with th	e and of syring
4. Inspect surfaces of bolts and inversal joints for correaton, cracks of scores	No corresion, cracks and scores are allowed on surfaces of bolts and	If corrosion has be	
5. Out surfaces of bolts and open- ga of universal joints with thin layer f grads HATES-CO lubricant 6. Re-install universal joints, cover mits outo bolts and lock them	universal joint	Bolts with surface crack abould be replaced	and sources
7. Use springs to grease universal policy with grade UMATHW-201 bricant	Appearance of lubricant in as- sembly clearances indicates sufficient lubrication		

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Supplement to Importion Suids No. 21 PROCESS CHART MASS. LARRING SEAR FROUGHT, MASSING AND DIMENSATION OF MASS OF MODERNE. SHOW STRING UNIVERSAL SOLUTE AND MASS AND MODERNE. Shows a strengthment of right and a love bolts or surrogiseous right and a love bolts or surrogiseous right and across place of mass and strengthment of the strengthment of the surrogiseous and blue with and recompressed air 10. Remains bolts and across of bolts and crosspicous accordance, cracks and acrosspicous accordance, cracks and acrosspicous accordance, cracks and acrosspicous accordance with thin layer of grade colling across or must and lowly than accordance of bolts recover must and lowly than with corrections 11. No install crosspicous and lowly than with correct plane. 12. No install crosspicous and lowly than with correct plane. 13. Use syrings to greace bolts and crosspicous in inductive of confliction in install cleam boits. Appearance of labricant in accordance of the surrogise of	in the state of a second re-		المراجع والمتعارض والمراجع والمتعارض	Tarana Erri dan	and the second section of the second section of the second
Depplement to Inspection Strike Se. 21 IMPLIES GIAN IMPLIES GIAN IN STRUCT		SECRET/NO FOR	REIGN DISSEM		
FINAL PASTER AND DESCRIPTION OF BOLES OF DOCUMENT Supports Seed of See		بمفضينين وبعيهم وبالراجات	elece i romanio di Sar		
FINAL PASTER AND DESCRIPTION OF BOLES OF DOCUMENT Supports Seed of See	27.			176 5	
FINAL PASTER AND DESCRIPTION OF BOLES OF DOCUMENT Supports Seed of See					
IABILITÉ SAIR EDUTAL, EASHIE AED LIBERTATION OF BOLES OF ROTTERENT SECON STRUT UNITEDAL JOINT AED EARS Le. STRUT CROSSFERS PRODUCES PRODUCES Trechnical requirements Poult conversion 8. Denoctraryies and corres mits off bolts of creespices of right and later and L.C. struts (upper, middle and lever bolts, see Fig. 30) 9. Ensures errespices and belts; ranh then is close graceline and bresstin compressed air 10. Examine belts and errespicess for corresion, crucks and scores of bolts and crosspicess should be close 11. Coat surfaces of bolts and crosspices should be close place openings with thin layer of grade EMITS-201 labercant and scores place openings with thin layer of grade EMITS-201 labercant are sented to be then with loster garnes on mits and level then with correspices with labercant, grade 13. Use syrings to greace bolts and crosspices with labercant, grade Sently clearances is indicative of should be replaced (pitted) belts Sently clearances is indicative of should be replaced (pitted) belts	Supplement to Inspection				50X1-HUM
IMETER SINE PROPERTY OF DISTRICT OF DUSTS OF DISTRICT SHOWS SHOWN DESCRIPTION OF DISTRICT CHARACTERS PROJECT A 10 Procedure Testimal requirements S. Demostraryin and source mate off bolts of executions of right and last main L.C. struct (upper, middle and last main L.C. struct (upper, middle and last main L.C. struct (upper, middle and last man them is alson gasoline and blow with compressed air 10. Examine belts and excesspicous should be clean corrected air and covered air controlion, cracks and source of bolts and excesspicous should be clean covered air countries of bolts and excesspicous should be replaced In case of aincr surface correction of bolts and excesspicous should be replaced In case of aincr surface correction of bolts and excesspicous should be replaced In case of aincr surface correction of bolts and excess and tolar source on mins and least them with controlled process with labricant process and excess and e	Suida ko. 21	PROCESS CHAR			
Trecourse Testimal requirements Pauli convertion 8. Discotterpin and sores mits aff bolts of creexpises of right and last main L.G. struts (upper, middle and lever bolts, see Hig. M) 9. Remove erespises and belts; Inner lubrisation spaces of belts and crosspicoss should be elsem 10. Examine belts and erosspicoss of bolts and crosspicoss should be elsem of bolts and crosspicos and belts and crosspicoss should be replaced in the course of mits and crosspicos and bolts and crosspicos should be replaced in the course of mits and lever the with in layer of grade 12. Re-install crosspicoss and bolts and crosspicoss and bolts are crosspicoss and bolts and crosspicos and bolts and crosspicos and bolts and crosspicos and bolts and crosspicos with labricant; grade sently clearances is indicative of should be replaced (pitted) belts 13. Uses syringe to greace belts appearance is indicative of should be replaced (pitted) belts					
2. Description and source mits aff bolts of exceptions of right and last main i.G. strets (upper, middle and lever bolts, see Hig. Ms) 9. Remove acceptance and belts; math then in clean gasoline and blow with compressed air 10. Transine bolts and excesspicous for corrosion, cracks and accres 11. Cont surfaces of bolts and crosspicous place openings with thin layer of grade III. Ex-install crosspicous and 12. Re-install excesspicous and 13. Use syrings to greace bolts 14. Due syrings to greace bolts 15. Description 16. Description 17. Due syrings to greace bolts 18. Description 19. Due syrings to greace bolts 18. Description 19. Due syrings to greace bolts 20. Due syrings	LAMELIES SEAR	SHOOT STRUCT BELLY SALE AND LUBER SALES OF	BOLES OF BOSEVEREL MA		
8. Denotteryin and sores ante off bolts of executions of right and later hain Lic. struts (upper, middle and lever bolts, see Fig. M.) 9. Beaves are explicate and blow with compressed air 10. Framin belts and everylesses for corrosion, cracks and scores 11. Cant surfaces of bolts and crosspicous shall not be tolerated 12. For-install crosspicous and later for corrosion with thin layer of grade limitable corres on mute and level thes with cotter plane 13. Use syrings to greace bolts 14. Loss strained to greace bolts 15. Loss strained to greace bolts 16. Loss strained to greace bolts 17. For-install crosspicous and correspicous of labricant in assembly clearances is indicative of should be replaced 18. Loss strained for corrosion of the surface corrosio			e. Eravi Canasipiacas Pecari	204 - 4,20	
bolts of exceptions of right and later and L.G. strain (upper, middle and lever bolts, see Fig.34) 9. Ensure excessions and belts; much then is alone graceline and blow with compressed air 10. Examine belts and excessions for corrosion, crucks and scores 11. Coat surfaces of bolts and crosspicous shall not be tollaried 12. For install crosspicous and bolts; acrew on mits and level thes with 13. Use syrings to grease bolts and crosspicous with libricant; grade 14. Pearsure of inbricant in assembly clearances is indicative of sentily corrocald (ritted) belts Sentily corrocald (ritted) belts Therefore a since surface corrocales The case of miner surface corrocales In case of miner surface corrocales of bolts recover runt with cloth and re- install clean belts Therefore a since surface corrocales In case of miner surface corrocales of bolts recover runt with cloth and re- install clean belts Therefore a since surface corrected (ritted) belts sently clearances is indicative of should be replaced Fig. 12. Fig. 12. Fig. 13. Fig. 13. Fig. 13. Fig. 14. Fig. 14. Fig. 15. Fig	7700000	Testminel requirements	Pault occreation		
bolts of exceptions of right and later and L.G. strain (upper, middle and lever bolts, see Fig.34) 9. Ensure excessions and belts; much then is alone graceline and blow with compressed air 10. Examine belts and excessions for corrosion, crucks and scores 11. Coat surfaces of bolts and crosspicous shall not be tollaried 12. For install crosspicous and bolts; acrew on mits and level thes with 13. Use syrings to grease bolts and crosspicous with libricant; grade 14. Pearsure of inbricant in assembly clearances is indicative of sentily corrocald (ritted) belts Sentily corrocald (ritted) belts Therefore a since surface corrocales The case of miner surface corrocales In case of miner surface corrocales of bolts recover runt with cloth and re- install clean belts Therefore a since surface corrocales In case of miner surface corrocales of bolts recover runt with cloth and re- install clean belts Therefore a since surface corrected (ritted) belts sently clearances is indicative of should be replaced Fig. 12. Fig. 12. Fig. 13. Fig. 13. Fig. 13. Fig. 14. Fig. 14. Fig. 15. Fig	S. Uncetterpin and norms mate our				
bolts, see Hig. M.) 9. Besorve arcospicose and belts; man these is alose gasoline and blow with compressed air 10. Franke belts and ercespicose for corrosion, cracks and scores 11. Coat surfaces of bolts and crosspicose should be clean 11. Coat surfaces of bolts and crosspicose shall not be tolerated 12. For-install crosspicose and tolts; screw on mute and leef these with 13. Use syrings to greace bolts 14. Dec syrings to greace bolts 15. Respective of indicative of should be replaced 16. Essertly corroded (pitted) bolts 17. Services of indicative of should be replaced 18. Essertly corroded (pitted) bolts	bolts of ereceptoos of right and laft	네. 오래 - 하루 프로그램 라		13 P. C.	
9. Beauty are averaginess and belts; unto these is also appeared air 10. Examine belts and errespisoes for correction, creaks and scores for correction, creaks and scores 11. Coat surfaces of bolts and crosspicoes shall not be televated in the place openings with thin layer of grade EMATES-201 lubricant 12. Re-install crosspicoes and televates and crosspicoes are some at the course of many and score on many and score of score on many and score on many a	main L.G. strate (upper, middle and less				
sand them is clean graceline and blow with compressed air 10. Examine belts and crosspicous for corrosion, cracks and scores 11. Coat surfaces of bolts and crosspicous shall not be tolerated 12. Re-install crosspicous and tolts; scree on muts and look then with 12. Re-install crosspicous and tolts; scree on muts and look then with 13. Use syringe to greace bolts 14. Personnes of indicative of school belts Appearance of indicative of school belts Appearance of indicative of school belts Essertly corroded (pitted) belts Second or replaced		기가 가게 되고 됐는 것 같아? 한 점점		1.5	
10. Examine belts and ercespieces for corrosion, cracks and scores 11. Coat surfaces of bolts and crosspieces shall not be tolerated 12. Re-install crosspieces and tolts; scree on mute and look then with 13. Use syringe to greace bolts 14. Due syringe to greace bolts and crosspieces with inbricant, grade 15. Re-install crosspieces with inbricant, grade 16. Respective of inbricant in assembly clearances is indicative of should be replaced In case of mine surface corrosion of bolts server rust with cloth and re- install clean belts Respective corroded (pitted) bolts	y. Assert erospieces and belts;	Inner lubrication spaces of bolts			
10. Examine belts and ercespieces for corrosion, cracks and accres 11. Cost surfaces of bolts and crosspicous shall not be 12. Re-install crosspicous and 13. Re-install crosspicous and 14. Re-install crosspicous and 15. Re-install crosspicous and 16. Re-install crosspicous and 17. Re-install crosspicous and 18. Re-install crosspicous and 19. Re-install crosspicous and 19. Re-install crosspicous and 19. Re-install crosspicous and 19. Re-install crosspicous and 10. Re-install crosspicous and 1	scentened at a	and processions should be olemn			
for corresion, cracks and scores of boits and crosspicous shall not be tolerated li. Cont surfaces of boits and crosspicous shall not be tolerated li. Cont surfaces of boits and crosspicous shall not be tolerated In case of mine surface correction of boits server rust with cloth and re-install crosspicous and lolte; server on mits and look them with ootter pine li. Use syringe to greace boits Appearance of indirection assembly clearances is indicative of should be replaced Essertly corrected (pitted) boits					보 화됐습니다. 그 전환
ll. Cast surfaces of bolts and cross- place openings with thin layer of grade EMITS-201 lubricant: 12. Re-install crosspicoss and tolts; source on mute and leef thes with cotter pine 13. Use syrings to greace bolts the crosspicoss with lubricant, grade ind crosspicoss with lubricant, grade sently clearances is indicative of should be replaced [Best/l] corroded (ritted) bolts sently clearances is indicative of should be replaced	for corresion, cracks and scores	of bolts and amendance and scoring	Bolts with surface cracks	er seares	" 전기적의 기가 있다.
place openings with thin layer of grade ERATES-201 labricant 12. Re-install crossyleces and lotte; scree on muts and look then with Octor pine 13. Use syringe to greace bolts appearance of labricant in assembly clearances is indicative of should be replaced Esserily corroded (pitted) bolts Seathly clearances is indicative of should be replaced	1	tolarated	should be replaced		경기가 그 사람
EMITE-201 lubricant 12. Re-install crosspicoss and tolts; acres on ants and leef them with Octtor pine 33. Use syringe to greace bolts and crosspicoss with labricant, grade Appearance of lubricant in assembly clearances is indicative of should be replaced.	ll. Coat surfaces of bolts and cross		Th see of stars		유럽다 가장
12. Re-install crosspicoss and leits; cores on muts and leek then with corter pime 13. Use syringe to greace bolts appearance of inbricant in assembly clearances is indicative of should be replaced.	piece openings with thin layer of grade	1	of bolts regove rest with also	t me	
tolis; cores on muts and leek them with outer pime 13. Use syringe to greace bolts Appearance of inbricant in as- southy clearances is indicative of should be remined should be remined.		and the second second second		01111427247747748	and the second s
Ootter pime 13. Use syringe to grease bolts Appearance of Indricant in assume the conspices with Indricant, grade sently clearances is indicative of should be replaced.	tolter gares on puts and look the miss		10 当144 吴新元元帝430 5	10 To	
13. Use syrings to grease bolts Appearance of Inhricant in as- ind crosspicess with Inhricant, grade suchly clearances is indicative of should be replaced.	ootter pine	4			
and crosspicess with inbricant, grade sembly clearances is indicative of should be replaced	13. Use syringe to grease bolts			2007年	
TATTE-201 sufficient inbriestion	and crosspieces with labricant, grade	sembly clearances is indicative of	should be replaced (ritted)	Bolts	이 경기
	1714-1714-SD1	sufficient Inbrication	The second second in a second	23.274	
	★ 第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	· 1000 ·	[29] 在"数据数字系		
		▮ 선명하시험에 한 번 생연		作用"李宝" 等	第124 L - 文色·香蕉蘭
	13.				
	A second second		The engineering of the engineering		
					CONTRACTOR AND ADDRESS OF THE PARTY OF THE P

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Supplement to Inspection. Duide Bo. 21	PROCESS CRAES	Bo. 26	In 4 shorts Short &
LIEMEN CARE	EDICTAL, TANCE AND PRINCIPE (A)		Reactions requires a say
Promotere	Technical requirements	Fault sorre	etion
A Marie Marie Company of the Company	T		

	Technical requirements	Pault sorrosties	
Accessive		Tools	

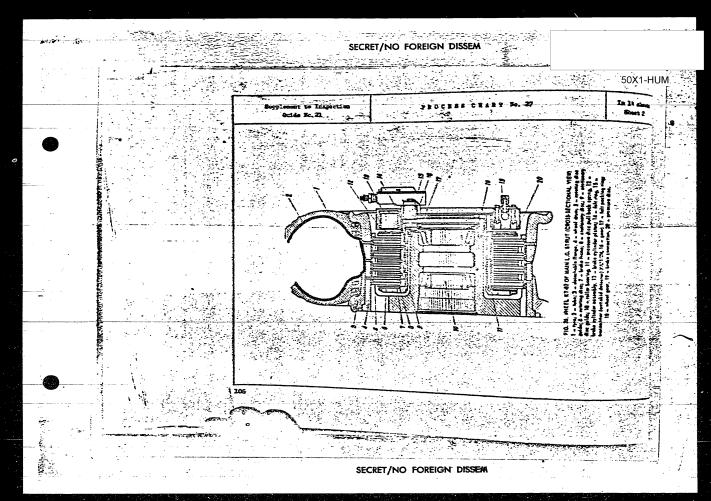
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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM ONEIGN DISSEM Sepplement to Inspection . 50X1-HUM P200235 62422 20.22 Guide Re.21 Za 14 sheets LINDING GREE CHESTING WINGS, PLINING AND REAL STORM FOR COMPLETION required - 2.05 Procedure 1. Dee hydraulic Jacks to lift air 1. Use mydraulic gache to lift air craft entil fits steels clear ground 2. Descont ET-62 or ET-628 theels of axis landing year strate and disea-sable them (Fig. 35) to this end; (a) disconnect brake emtral pose-a nic line from commercion on wheel;

(b) disconnect electric wires and
remove JA23/2M antiskid detector (transmitter) 4 from wheel; (c) release looking ring and r (d) unlock and screw mut off wheel arle: axio;
(e) resove outer roller bearing,
wheel, second roller bearing and gland
from wheel axio;
(f) release bolt joint by upsergeing muts ? of breks (on wheel axis flance); (g) remove wheel brake from wheel arlo;
(b) disassemble wheel brake theel brake and cylinder es-seably should be disasseabled with the aid of special fixtures SECRET/NO FOREIGN DISSEM



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Suide Bo.21	AVAIL AVAILABLE SEE APAIR SE	ISPER FOR COMPITION	Ebect & Sections - 2.E
ZAIDING STAR	CHARLES STATES, PARTIES AND PRAIR STREET FOR COMPLYION requir		
Procedure	Inchnical requirements	Sault correc	ties
	Thesis, type IT-52, use brain direct main from powder astal, grade (MI-5, with friction conflicient W = 0.12 to 0.15. Ebsels, type IT-528, use brain direct main from powder astal, grade 305-11, with friction conflicient W =	Service Alana	
3. West parts with clean gasoline. Each condition of brake and powder act	= 0.20 to 0.22 Any number of minor eracks in case al iron portion, as well as annular		
lians, brain system cylinder assembly, roller bearings and other perus of main lending goar theel	scores not deeper than 0.5 mm are allowed as wanting surfaces of trinottilities sectors of bruke alires. Open create running across entire width of sector and Spreading over writing sector and Spreading over entire septh of cast ince portion down to steel frees shall not be tolerated. Forder setal disce, pressure disc.	here been detected on a replace faulty brake di	
36	and powder motal facing of frame bott end may be affected with any number of cracks in powder metal portion. Oracks running through powder motal portion and steel frame are not permissible. Marpage of bimetallic	tion and extend through place disc Discs with surpage braking of wheel with be should be replaced	which cases

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Supplement to Impaction Guide So. 21 LADIEG GEAS Technical requirements Technical requirements And powder sentil discs shall be tolerated if this defect does not cause braids of their states with brake released. Increasable with brake released. Increasable and powder sentil discs shall be tolerated if this defect does not cause braids of their states of the state of the released of powder sentil discs shall be tolerated if this defect does not cause braids of their powder sentil of her crowbing of powder sentil on better crowbing of powder sentil on sectors of the state of the

्रेन्द्रके हिंगहेको उत्तरामाञ्चलक होना के **क**र स्थितमहारे कर सेन्द्र

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Suplement to Inspection Suide So.21	PROCESS CRARY	B6-27	In 14 stanta Ebect 6
LANDER SAR	CÉCTIC CIEA, HANKS AD BAY ST	STEM POR COSDITION	Sections required - 2.5
Protein	Technical requirements	Pauls corre	ction
and heale cylinder pistons - with grade MAITH-201 Inhricant 5. Beasseable sain L.C. leg brahm and wheels in the order reverse to dis- sembly, and mount then onto struct Mass. Inflate wheels using special infla-			
6. Demount and discount	Inflation pressure in wheals of main L.G. strutes should be: (a) 5 °0.5 kyca² for morsal take-off weight; b) 10 °0.5 ky/ca² for sarisma take-off weight	e seithe en ann an Armanaga.	
(a) disconnect steel brakes control smeatic line from two connections; (b) disconnect electric sires from \$24/2 antistid 4000000000000000000000000000000000000	hade lining is fit for opera- tion irrespective of maker of sinor creeks provided these creeks do not extend across entire thickness of cast from portion, and irrespective of ab- maler scores of		
(c) unlock and ecres met off wheel (d) withdres wheel axle from siret t and from wheel with the sid of spe- 1 puller and disaster.	lining If sorting surface of biastallia		
	thickness of cast iron portion and		

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			5.3
Supplement to Importion Suide No. 21			درانات می این
outee Ec. 21	330C233 \$8435		_
			,
LANDING SEAR		Boost 7	1 ≥ 5
	CHICAGO PERES, BURIES IN B		-18
Procedure	,	TER SINTER FOR CONTINION Non-pours	
1100000310	Technical requirements	20guiros - 2.0	1 🐃
		Pault serrection	1
	of cast de		1 🔄
	TOD DOTTION to		1
7. Heah parts with clean gesoline	THE PARTY OF STREET		1
	Brake shoes are seen		
	The succession is not smaller than		
PLAN OF Wheel		than 8 mm, replace faulty shoe	
then inspecting name and	The second second second second	A STATE OF STATE OF VEHICLE	
accounting to the delignment	'I had the si		
THIS THE CLEAN AND AND AND AND AND AND AND AND AND A	Gear teeth should be intact and	In case of hunbar	
duari mare enre them	The drawn	In case of broken or cracked tests	
at test) roots:			
b) absence of correcton and cracks.	Corresion and eracks on rollers		
es ami rollers of bearings;	and races shall not be tolerated.	In case of correctes or cracks re-	
c) bell bearings of transmitter ediate short	Intermediate share or we are	In the second second	
acert	PLENTEDILLES CLIAB BARTON Spendy and	In case of stiff rotation of shaft	•
	an oddrings meely, sighter comes	THE REAL PROPERTY OF CHARACTER STATE	
	and jaming	TOTAL PLANT CLARE PROPIETOR	
		1 The same of the	
	그렇게 뭐 하게 하장하다면서 되는 것이		
lubricate roller bearings with		actions fail to correct faults, replace	,
rease (both in wirter and to			
and orite gears with hall bearings			
ade Farre-201 lubricant			
	Arter and the control of the control		
	보기되기가 넘근함 기단한 됐다고	and the first of the state of t	100
이 그는 그리고 말았다면서 다른 사람이 되었다.			
나는 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은	그 그들은 강선하다 하나야 없다고 없다.		



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Supplement to Inspection	PROCESS CRAES	2 36. 27	Is It gray,
TYRUIR GETZ	SPECE VALLS, PRINCES AND PARTY	SISTEM POR COUNTYION	no derine - : Hem-posta
Procedure	Projected redefrences	Fault corr	erties
11. Check pressure of air supplied to brakes of each wheel. To do this: (a) connect type EB-30 or EB-60 pressure gauge to brake system hone: (b) operating from cochpit press	Pressure game should read 16 2 0.5 kg/cm. Sith emergency brake control salve open, pressure games should read 16 2 kg/cm.	In case booss are pipelines by discomment them with air successiv	ing and times
brain central lawer on aircraft control stick as far as it will go; (c) open emergency brake control walve.	Then brake control laver on sir- erate control silch is pressed, two- -pointer pressure gange 23-12 should indicate 6 2 0.5 kg/m² pressure in	of eleging and elimina	
Check right and last wheels in succession. Open completion of check, re- comment tubes (brees)	gange should not exceed 0.5 kg/cm2.	3	
	In aircraft equipped with type [75-03/1 deboosters instead of type [75-03-2 deboosters, the IF-7 valve should be adjusted for 5,5 = 0.5 kg/cs		
	pressure, and EB-12 pressure gauge should read 5.5 2 0.5 kg/cm, same- value air pressure being applied to brain of nonewheel. Lir loss per com braking oyele is		
	equivalent to pressure loss of 50 to 60 kg/m2		

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Supplement to Inspection. 2202253, 25427 Bo. 27 Stort 21 LANDING GEAR CHARLE SHEELS, MANIES AND STATE STREET, FOR CONCENSION Technical requirements Type JU-24-90-2 deboosters with tio are installed in brake sys on of ET-82E wheels. The check should show the fellow pressure values in brakes; (a) 16 = 0.5 kg/cm² in main wh (b) 10.5 ± 0.5 kg/cm² in x Theels, type ET-82%, feature re-Sheels, type in-dex, jesture re-duned idle volume of brain oplinders. Therefore air consusption per one 2 braking oyols equals 25 to 30 kg/cm. Both right and laft main Lee. Strats should be equipped with IN-SM shoels if this type is used Main presentic system should be micus and check mirtightness of main ked for mirtightness with refer-(a) that sirtightness of main ence to main system pressure gange 25-150. Main hydraulic system, when tic system;
(b) check mirtightness of emergency 26-150. Main hydraulic system, when fully charged to 110 - 130 kg/cm2 is rally charged to 110 = 130 kg/cm² in considered mirtight if pressure re-duction does not exceed 5 kg/cm² in Tennetic system. To this end, close one the crarse of 2 hours (system from fire charging value: ain air bottles to pressure cons

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_____ 50X1-HUM PROGRES ORARS BOAT Ebest 12 Supplement to Inspection Datie Eo.21 TAIDING GRAN CERCIES TORES, BRANCES AND BRANCE SYSTEM FOR COMDITION Technical requirements Fault correction Check with reference to 28-150 pressure game of energency system
har pressure is allowed to drop
by up to 2.5 kg/m² daring 30 admitted
(for right and left positions of pedels, separately). Check pressure by (c) check stirtightness of brain ay (c) check sirtightness of bruks system (Fig. 41), To this end: with waives closed and nonembeal bruked press bruks control lever on eigeraft control stick and keep it emerged until 8 *40.5 Kg/m² pressure is obtained in bruke system (as read by two-pointer pressure gauge 15-12) this bother done, UF-6 valve about do in one of extreme ponentions (check in 25-150 pressure gauge of main system succession, by applying petals to right or left);
(d) check airtigimess of energing;
brake system; to do this, open energing;
brake control values and keep it open for pressure in energency brake system is allowed to drop by not more than 30 kg/cm² Check through reference to 25-150 pressure gauge of emergency brake co

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		50X1-HUM
Pupilment to Inspection Online No.21	PROCESSIONARY	To 5 sheets Exect 1
LANDING GRAR	DESPECTION OF TAPES DESERTED AND CREEK STREET LEGIS TIES	SUPPLIES OF MAIN L.G. Excadourns required = 0.30
Procedure	Technical requirements	Parls sorrection
thout resoring brake dies; to do this can access hole in wheel leading to seel set, unlock and screw off set? 2. Disconnect sain L.G. wheel sam as accessing acceptance control red (Fig. 42) 3. Press lower believesk of these uning sechanise retaining hrets dissured that the set of the could be seen and the set of the could be set of the could be set of the set of the could be set of the could be set of the set of	If traces of wear or scoring are detected on check surface of impar two at check-to-plaints	
ection, remove wheel axle complete wi	th work affected area with enery cloth Bo.200, thoroughly wash it with gaso-	
	line and coar with grade idlitis-full lubricant. Do not pack inhericant into busing especially in cold seasons otherwise pin will feil to enter busing. If busining is some down by more than 0.3 ha replace it. Wake a partier for seasuring wear depth. If no spare businings are svaliable, use old hosting line in the full pince business are excelled.	



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SECRET/NO FOREIGN DISSEM - 50X1-HUM: Surplement to Inspection Guide Ho. 21 Q. In 5 spects DEPENDED OF TAPE RESULTS AND CHARLES STEVARE OF MAIN LAS. ENGINE CEUE Pechnical requirements 5. Upon toplacement of taper bush ing act as follows: ing act as follows: (a) place strut axis horisontally lifting it by brake discs and lowering turning sectangian lewar; (b) re-again lewar; (c) check clearence between strut inner tube and stop on atrut axis. If necessary, adjust clearence as instructs in Process Chart 50.33 6. Setrect and extend L.G. struts three times to make sure that pin secncity locks wheel axis in extended and retrected positions 51.-7. Checks functioning of sale shaft uning mechanism and of kinematic look. Wich fires sale shaft of main L.G. (a) check closed position of axle Then lock is closed completely feeler pin should enter freely by length of 21 - 23 m. that lock with strut extended; to this cal, insert feeler pin, 3 m in dinester, in check hole located on kinematic link edjusting control red length by seems of adjusting control (Pig.44, Ref. No.5, March Robert

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Supplement to Inspection Oxide Re.21	PROCESSIONARY	34.20	In 5 mete Short 4
LAIDING WAR	INSPECTACE OF TAPES PERSONS AND CREEK SCHOOL TIMES TURE	SURPLUE OF HATE Z.G.	Ren-hours
Precedure	Tochnical requirements	Pault occrect	
of lock (Fig.as, Ref. See 10 and 11); (b) when more that exis shaft lock is fully closed check clearence between struct immer tube and head of thrust bolt on axis shaft (Fig.as, Ref. See 7 and 8).	check hole this seems that holes in kinematic links are sicalified and lack is not closed with lock fully closed, clearance between head of thrust bolt and street inear tube (on jackrd-op sireners).	If clearance erross	is 0.25 m n-
For convenience's sake in sensuring this clearance it is allowed to discom- ment brake home from wheel and electric wires - from wheel brake transmitters (antishid detectors)	abould be within 0.03 to 0.25 mm	then instelling new deposits weiding on boils 0.03 - 0.1 am clearance between boil head and at take sure that boil head.	heed to obtain
		contact surface covers as of entire thrust surface adjust by paint pattern)	· · · · · · · · · · · · · · · · ·
Clearence gauge with not of feeler bla Poeler pin, dia, 3 mm	ins Eruch for thee	Tools	
	Screedel var		

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SECRET/NO FOREIGN DISSEM 50X1-HUM PROCES ORARS So.29 In 5 steels CHECKING L.G. DESCRICT EXTENSION STRIPS FOR PROPER PURCYIONING AND ADDRESS ... Technical requirements Fault correction PRO Y . 116 St In page If pressure is lower than 110 ber. 2, Accomplish the following commen-si-(a) connect ground hydranic instal (a) cornect ground hydraulic install lation to sirrerfy njoe unions and brild up pressure in system; (a) comment electric power supply source and turn on all circuit-breakars). Command maintenance personnel to clear landing geer; upon receiving schowledgement of command, three lock up and reset landing geer control cock from noutreal to President (versident). If landing gear retracts and be-mes locked in retracted position normally, red indicator lights L.G. REINCRED (BACCE VERLED) on light The neutral to Affiliate () FEHEO) position (m) indication penal No.6 and three red lights on L.C. indication penal show Leep L.C. control coul in retrue tion position during 10 to 15 accords and then set it neutral. This done, L.C. EFFRICTO indicator lights shoul SECRET/NO FOREIGN DISSEM

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			50X1-HL
Supplement to Inspection Guide No.21	PIOCIES CRART	Sp.29 In Streets	
LANDER CHAR	CHECKICO L.G. MONOSPOT EXTENSION FUNCTIONISS AND ALEPTIC		
Procedure	Pechnical requirements	Fault correction	1
A. Believe pressure is main by- freulic system to sero by moving aircraft control stick backward and forward	Is one minute after L.G. retroc- t tion disensage ground hydramite pump sithout disconnecting supply knoses		
5. Place L.G. control cook to EXTRACTION (HA MAINTE) 6. Open valve of L.G. coargancy ex-	from mircraft pipe unions		
tension possestic system. Leading gear extended, observe light and mechanical indicators to make sure	landing geer should extend com- pletely and become fixed by ball locks of hydraulic cylinders. Green lights L.G. EXTERNED (MACCO	In the course of energing extension of laming gear, ejection of ign-10 ma- dreulic fluid from inner space of ign-	
that landing goar struts are locked;	EMPLIERO) on light indication penal So.6 should flash up and mechanical indicator in fussings hose section	drealist reservoir of main hydraulic sys- tes (right-band section of hydraulic re- servoir, as viewed in direction of flight should not be considered shounds. That	
7. Expell air froz sain L.G. stret	should go out completely	should be placed under fuselage to cal- lect ejected fluid	
sctusting hydrealic cylinder; to this end, screw off union nut of strut extension line pipe (running free hydraulic cylin- jor of usin L.G. strut).			
Bracuste air from hydraulic cylinder of L.G. noserbeel strut; to this end, tures off mut of hydraulic cylinder pipe			
(in cylinder bottom portion)			

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LABOUR CHAR CHARLES CONTROL CONTROL OF THE POR PEOPLE LC. EMEGICAL STREET POR PEOPLE CONTROL OF THE PORT OF THE PO			Mancage
Procedure	Technical requirements	Pault sorrec	required -1.
S. Engage ground bydrenlic installa-			
ns and pump ANT-10 hydraulic Muid rough main hydraulic system; when pump-			
to relief 10 to 12 retractionartement	1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	1 年至美元第4条元章	
AND AT INCLINE STATE			
9. Charge energency presentic system	discussion of the later of the		
itiocally to 110 - 130 kg/cm ² , and add -10 hydraulic fluid to hydraulic re-			والمنطر والماسطسمان
Acre to enbecita			30.00 1.000
10. Disconnect ground hadamate.			1.5
Alamon Iron aircraft nine unione			
11. Discouract ground electric power			34.
The Construction of the Co		TOTAL TRANSPORT	

Accessories	Park San Branch Barrer		1 2 C
Second hydranlic instellation	4. V	Tools	50 SE
Ground electric power supply source	Branches 14		3,30
	Franches, la x Flat-nose plier	17 and 19 z 22	والمناطق والمارة
er tradition to the first transfer of the second transfer of the sec			

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SECRET/NO FOREIGN DISSEM 50X1-HUM Sapplement to Inspection Wide No. 21 LARDING GRAZ CHARLES AND 10 MINIMIZE FUILD LEVEL IN L.C. SECON STREET AND MARKET SELECT LINES. 1. Lift aircraft by means of jocks until wheels clear ground. This should be done if maintenance operations on be done if maintenance operations on landing feat are carried out before die jointing of fundage 2. Descap plugs from charging valve and serve on firtures for charging Yalve shook strate and hydraulic accumulators with nitrogen; check pressure in shock atruts and hydraulic accumulators, and, structs and instruction secumilators, and, using special fixture, relieve nitrogen pressure from abook struts (Pig. 9). Screen out charging valve and drain hole plug from abook strut of L.G. If hissing sound of escaping mitrogen is sudible when charging valve is be-ing unscrewed, discontinue valve unscrewing until mitrogen escapes con-4. Use springs to fill shock strut (through holes in charging valve) with 100 cu, cm of ANT-10 hydraulic fluid pletely (b) 650 ca.ca or

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Supplement to Inspection	PROCESS CRART	Do. 30	In 7 sheets Sheet 2
Octás So.22	CHECKING AND PURSUANT FIRST SECOND	DIFFE	required - 2%
	Technical requirements	Fault corre	rties .
Freedure 5. Gradually lower sircraft nose to tenin full compression of nesembed	Strut should be in remical po- sition Emess of ANT-10 fluid will be	If no fluid escap- strut, add hydraulic f. strut to 100 cu.es and emess	luid to shock
nock strut and keep aircraft in this estition during at least 20 minutes until messive AFF-10 fluid is faily drained 6. Turn in charging valve and drain	trained from compressed about strate through charging valve hole		
ols plag, reise aircraft nose matil heeis clear ground and charge mosesheel hock strut with technical nitrogen ?. Scree out charging valves of			The windows seems
min L.C. shock struts and, operating through holes in struts, fill sent shock trut with 100 co.cn of AFF-10 hydraulic luid (use symings for charging)	Adjust jarks to obtain vartical	If hydreulic flu	id fails to be
b. Gratually lower sireraft (by seems of wing jacks) to obtain full con- pression of sain L.G. shock strats and teep effects in this position during	position of struts with shock struts fully ecopressed	drained, add fluid in drain excessive finid	to shock strets
to minutes 9. Serve in charging valves and perate wing jacks to lift direraft until phoals clear ground		If it is necessare shock strate with fro	ab Lur-10 field

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM Supplement to Inspection Guide No.21 PROCESS CHART 50.30 CHECKER ANT-10 RYDRATHIC FIRST LEVEL IN L.C. SECON STRUM AND E-CHECKE SERVIC DAMPS LANDING CRAR Proce lure Pechnical requirements . 10. Use special fixture to charge ock strets with compressed technical trooms (a) 30 1 kg/cm² is main L.G. shock struts;
(b) 34 2 1 kg/cm² in nonembed shock strut.
If in cold seasons shock struts are being charged in heated rooms, it should be taken into consideration abould be taken into consideration that sublent air temperature decrease results in reduced pressure in shock struts. In this case it is necessary to inspress pressure in shock struts by 1.2 kg/cs² per every 10°C dif-ference between temperature in charge the constant of the constant of the con-SECRET/NO FOREIGN DISSEM

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	The second secon		
			50X1-HUM
	Duplement to Inspection Saids No.21	2 E O C E S S C E L R 2 80,30	In 7 abouts
	ZANIZING GRAN	CHECKE ART-10 EDGALLED FUILD LEVEL IN L.G. STOCK STRING CHECKE SCHOOL CAR	sedming - 5'2'; c
	Procedure	Technical requirements Fault	correction
- 42		Basic Tochnica: Date of Janting Gear	

Characteristics	Main strut	Hosewheel Strut
1	2	1
Street	Eyirenlie- nitrogen	nitrogen
Operating finish used in shock struts Shock strut full trevel	280-10 (roor 6794-53) 280 +2 280 -3 sa	AIC-10 (FOCT 6731-53) 90 +2 mm
sheel type and dimensions Initial pressure in shock street	660 x 2003: (137-82)	500 x 1804 (17-38)
(a) at nominal take-off swight;	30 ² 1 ½ /ca ²	34 - 1 15/cm ²
(3) at maxis and take off weight	30 2 1 kg/cs2	34 = 1 %/cs2
Ensel tire infla-	Service	
(a) at nominal	8+0.5 kg/cz²	6+0.5 kg/ca2
(b) at actions	10+0.5 kg/cm2	6+0.5 kg/ca ²

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bupplement to Inspection Guide Bo.21	PROCESS CHART No.30 In 7 Shorts.
-, LANDING CRAR	GENCKING ANT-10 SIDEACLIC FUITO LEVEL IS L.G. SECON STEPPS Sen-bours AND NOSSERIEL SELECT DAMPS: Regulard - 2-50
Procedure	Technical requirements Fault correction
	Ground compression (clearse):
	(a) at sormal 140% mm 54.5 2 3 mm 54.5 2 3 mm 17% mm 34 2 3 mm
	Ground tire de- flection: (a) at normal take-off velight:
	(b) at maximum 45 ma 30 mm take-off weight 30 mm
	of the sireraft with full load of fres, oil, saxumition, less the drop tank and special external loads 2. The saxiaum take-off weight is the velicit of the sireraft with full load of fresh the sireraft with full load of fresh sireraft with full load of f
	stock struct is the distance between shock structurer tube and and rin of inner tube head (Figs 46 and 47)

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				50X1-HUM
	Supplement to Inspection Saids No.22	PROCESS CRAES	20.30	In 7 sheate Sheet 5
	LANDONG GRAD	CHECUPA ANTHON CALL		required = 2.%
	Protedure	Technical requirements	Femilt correc	tion
	11. Check assumt of AUT-10 hydracilis fluid in nessencel shimmy damper (corry out the checks on atrets with wheel here- ing mechanis reserved): (a) if red reference mark on red is	If there are no reference marks	MA MIT-10 finis in	The state of the s
	not seen or is located at a distance of not less than ? an above cover, add AND-10 finid into shimny desper; (b) if white reference mark on rof councides with cover surface or stunda sometimt above it (by 1 - 2 m auxiliar).	on rods, take first emaileration the Tollowing standard discussions of rod extension: (a) with compensation charter filled normally as 20 ± 50 tempera- ture rod abould be not by 18:5 m	chamber as follows: (a) fix shimny damp position and screw fille: compensator red (carry or tions at 20 2 5°C);	er in operations or neck cap from
	as well as in case write reference mark is not seen while red mark is located at a distance greater than 7 mm, no meditional charging of shimmy desper chamber is needed. In cold seasons shimmy desper should	from top of filler neck cap to charber cover; (b) minima operational extension of red cap top to charber cover security to the cover	(c) supply AMT-10 his sure and watch movement of pressure until rod extend	head for pre- draulic fluid, will under pre- draul. Sapply is by 20 mg.
	be recoved and transferred to heated reco for warning		(d) disconnect syring adapter out of rods (e) using duralismin tently pieze bell of non-similar soundly watch lower salving sure not to miss a reference link or rod coi.	rod, intenti- return value ring of rol
			face of upper cover of ch	naber body. b

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 25.00 .50X1-HUM Supplement to Inspection Suide Se.21 PROCEER 02 4 2 7 30.30 AND DOCUMENT, STITUTE TO LEG. SHOCK STRUKE LANDING GRAD this position AFF-10 fluid ctill flow from rod hole. Serse in filler meck cap and lock it with type EEE-0.8 sire; - 4 Pixture for charging shock struts and hydraulic accus French, 14 x 17 lators and checking pressure in than, 72-7804 · 164 全国的基础设置。 SECRET/NO FOREIGN DISSEM

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PROCESS CIARS BOR Sheet 1 Ogida So.21 CHARTING ANT-10 STURMWIT FLUID IN L.C. SHOCK STRUTS AND ROSESTEEL SHEET DAMPER TAXOUR GRAD required - 2.50 l. Lift aircraft by moons of jacks atil wheels clear ground 2. Descent main L.G. streets in the 2. Descent main L.G. strute in the fellewing order: (a) drain feel from wing tends into clean vessels or refinellar; to this end, serve out fresh ping from wing tends—fresh holes and install special firture in place of thes (Pig.48); (b) drive out servers and resove goneses on sing; (c) resove feel transfer pump LEPI-EN of wing tanks; (d) resove sain L.G. strut EMPROSE (e) resove and L.G. strut EMPROSE (e) remove sain L.G. strut EVENDED limit switch; (f) descent shoel and brake discs

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from wheel exle shaft;

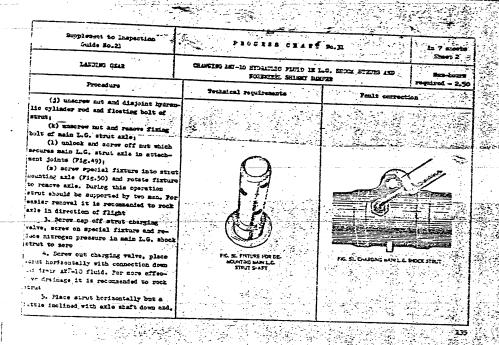
air brice;

from wheel cale shart;
(g) demount strut and crossplece
fairings;
(t) serve off met and unjoint control rod of useal turning mechanism at
upper arm of trossplece
(1) serve off union more of three
at better.

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Supplement to Inspection Guide Fe-21	PROCESSO	BART Bo.M	In Taring Short 3
EMPIRO CEAR	CHARGES AND 10 STRAILES FLOID IN MASSRIES SHIPS DA		Ledarist - S?
Procedure	. Tochnical requirements	Fault correc	He .
sing syriage (Fig.51), fill stret with		er jakon sakes	
000 on, on of ANT-10 flate			
To re-mount strut on aircraft re-			
warme demounting procedure		10万百万万万万百万万	·
6. Demount mosewheel strit as fel-	the state of the state of the	a hear is	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Lors		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(a) unlock and serew off mut and di	الم		
connect hydrenlic cylinder rod from stre			
(b) derount wheel;	1		
(c) remove panel (with entenna) of			
eccess hole leading to mosewheel strut a	umal .	. ಕೃತಿಗಳ ತಿ	- 1
disconnect strut position aschanical in-		on one operation registed	su contra de
licator from strat;		24.24	تبزيدن يورند
(4) disconnect momentual turning	· 1977年,最高等。 (1987年) "美国人		
sechenism control rod:	The State of Break and the		
(e) open covers of access heles .	The Right And Addition	1 9 3 3 8 3 4 1 A 5 3 A	5.
leading to L.G. Discretical axis;	TWO RESERVED		
(f) unlook and screw off strut shall			
sounting put (two special wrench for this			
berboss)!	세계하다. 전화 확인된 너 하는		
(g) discomment strut-mounted hydren			
it ayeres pipes running to wheel turning	«		
D-1207168;			
(h) disconnert air surply pipes rus			
ing to meel brakens.			
**			

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SECRET/NO FOREIGN DISSEM 50X1-HUM Established to Inspection 220C225 CZA27 962 icile Fo.21 Shoés 4 LANDING GRAD CHAPTER 180-10 EFERADAR FROM IN 1.C. SEOK STATE AND FOR METEL SELECT DUPPER (1) disconnect electric connector from FaZeV2 transmitter (antickid deter (co); (f) colleges strutes do this by pressing lanting year doesleck downwrds by seams of handle burg (k) resore strut mounting aris; dering this operation strut should be supcorted by two seas 7. Strue special fixture onto strut, irelieve nitrogen pressure to sero and crain AMP-10 finid from L.G. moseumed 8. Fill 600 cu.cs of AMP-10 hydranlie fauld into L.G. moseumed strut (fig.52) (cr) (71g.52) 9. Re-count posenheel strut on eir-craft in the order reverse to descuring 16. Charge sain and nosenheel L.C. struts with nitrogen from ground nitrog .bottle 11. Recove sheel shimny damper from Secuted strut 12. Clean thingy damper from dirt am wips in with clean cloth or blow with compressed air 3.37 3

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Supplement to Inspection PROCESS CHART So.31 Sheet 5				50X1-HUI
EARNIES GRAN CENSIST AND 10 EINSHIELD FALLS. SHOULD BE LEG. SHOULD BE REQUIRED. 13. Serve compensator from shimpy lamper body, serve out filler bole plugs and thoroughly drain old AND-10 hydronite Train from ahimpy demper and compensator. Faing clean from shimpy demper and compensator of compensator. Frain washing finite from shimpy demper and compensator. Frain washing finite from shimpy demper and compensator. Frain washing finite from shimpy demper and compensator. Frain washing finite tholers, fill planting disabers with clean AND-10 hydronite finite to level of body top odge 15. Serve compensator into shimpy desper body. Before doing this, check compensator because the compensator because of the compensator because the com	Surplement to Inspection	ガス ミタベー 大変した とし		In 7 sheets Sheet 5
Recentive Technical requirements 13. Serve companisator from shimsy super body, serve out filler hole plags and thoroughly drain old affi-10 hydrenlis fluid from shimsy damper 14. Waing clean fresh Affi-10 fluid such inner spaces of operating chambers, sentral charber of shimsy damper and companisation charber of companisator. Train washing fluid from shimsy insuper 15. Flace shimsy damper horisontally, with believank down. Operating through filler holes, fill personal chambers with clean Affillo hydraulic fluid to level of body top edge is. Serve companisator into salinay damper body. Dafors doing this, chock condition of sealing ring. Then servering in compensator to sense not to disagge sealing classets 17. Server plag out of compensator rod, acress applies of filling Affi-10 hydraulis		THE PERSON NEWSFILL PROPERTY IN LA		required - 2.5:
super body, acres out filler hole plays of thoroughly drain old 150-10 hydraulic linid from shimy damper 14. Eating clean fresh ART-10 finid sach inner spaces of operating chambers, entral charter of ahismy damper and con- sensation charter of compensator. From washing finid from shimy imper 15. Flace shimny damper horisontally, with believank down. Operating through filler holes, fill paratting chambers with clean ART-10 hy- invalic fixed to level of body top edge 15. Server compensator into shimay susper body. Before doing this, chock con- dition of scaling ring. Then servering in compensator to some not to disagn scaling almostes 17. Server play out of compensator ref, server adeptar into rod and connect symmer for filling ART-10 hydraulis	Procedure	Technical requirements	yeult correction	68
separ body, server out filler hole places of thoroughly drain old ARC-10 hydrenlis inid from shimy despur 1a, Uning clean fresh ARC-10 finid sash inner spaces of operating charbers, certral charber of ahiany despur and commercian charber of ahiany despur and commercian charber of compensator. Prain washing finid from shimay super 15. Place shimny damper horizontally, in believank down. Operating through filler holes, fill juristing charbers with clean ARC-10 hydraulic finid to level of body top edge 16. Server compensator into shimay seaper body, before doing this, check condition of sealing ring. Then servering in compensator be sure not to disage sealing liseants. 17. Server plag out of compensator red, server asspars into rod and compect sympter for filling ARC-10 hydraulis	13. Serve compensator from shirty			
at theregally drain old ANT-10 hydranic nint from shisny damper 14. Saing clean fresh ANT-10 finid the inner spaces of operating chiabers, that charter of aning damper and commercian charber of compensator. Prain washing finid from shisny copy 15. Flace shimny damper horisontally, its believank down. Operating through filler holes, fill parening charbers with clean ANT-10 hydranic charbers with clean ANT-10 hydralic first to level of body top edge 15. Serw compensator into shisny separ holy. before doing this, check condition of sealing ring, then acreving in compensator be sure not to damage sealing lements 17. Serve plug out of compensator of, serve acceptant into rod and connect synages for filling ANT-12 hydralias	mer body, screw out filler bole plugs			Garage Control
14. Using clean freek AEV-10 finid as inner spaces of operating chanters, nortal chanter of anisny desper and commention chanter of compensator. Prain washing finid from shimy more to free shimy damper horisontally, the believank down. Operating through filler holes, fill paraning chanters with clean AEV-10 hyrralia finit to level of body top edge if. Serwe compensator into shings maper body, before doing this, chock continue of assling ring, then servering in oppositors be sure not to demany sealing lessents 17. Serve plug out of compensator od, serve adepter into rod and connect tyrance for filling AEV-12 hydrenias	d rhannishly drain old AM-10 hydronic		★ 日本日本は、株式は多数	
10. Using clean fresh ANT-10 fined ab inner spaces of operating chambers, normal chanter of animary despire and commercian chamber of corporator. Frain washing fined from aliany despire horizontally, its believank down. Operating through filler holes, fill parating chambers with clean ANT-10 hyperalise finit to level of body top edge 15. Serve compansator into shinay separ body, before doing this, check contained on the contained of the cont	TRUSTA STATE OF THE STATE OF TH			
ab inner spaces of operating chambers, trail chamber of ability dispir and constituent chamber of corpensator. Frain waking finit from aliany more finite that the same of th	76. Faire clear fresh ANT-10 Sinis		【實際經濟學的整理	
ntreal character of schizery despire and com- mention character of compensator. Train waking fluid from aliasey per 15. Flace skinny damper horizontally, th believank down. Operating through filler holes, fill having charbers with clean ANT-10 hy- multe fluid to level of body top edge 16. Server compensator into skinny space body. Before doing tids, check com- tion of sealing ring. Then servering in momentum be sure not to demays sealing temates 17. Server plug out of compensator od, surver adapter into rod and connect prince for filling ANT-12 hydrenian	and transmitted chambers,			第450年第2
Drain washing finid from aliany ager 15. Flace shimny damper horisontally to believe the domain down. Operating through filler holes, fill arming clambers with clean AMN-10 hy- multe finid to level of body top edge 16. Sorw compensator into shimny separ body. Defers doing this, check con- letten of sealing ring, then servering in appearator be sure not to damage sealing tracets 17. Sorw plag out of compensator of, surew stepter into rod and connect rings for filling AMT-12 hydrenian	stand charles of shiner damper and con-	are the transfer of the	A Charles and the	مراض المستوانية
Prain weaking fluid from ahissy ages 15. Flace shirmy desper horisontally, the believenk down. Operating through filler holes, fill arting charbers with clean AN-10 in- market fluid to leval of body top edge 16. Serve compensator into shirsy super body. Defore doing this, check con- tition of sealing ring, then servering in compensator be sure not to demany sealing lements 17. Serve plug out of compensator of, serve adopter into rod and connect prince for filling AN-12 hydrenian	mercian charles of compensator.		刺げ カル・ド かゆ	
15. Place shimy damper horisontally, betting fluid temperature should be 20.2.50 Operating through filler holes, fill larning chapters with clean ANT-10 hymenite fluid to level of body top edge 16. Serve compensator into shimay separa body, before doing this, check consistent of sealing ring. Then serveing in momenture be sure not to damage sealing leasents 17. Serve plug out of compensator od, surve stepter into rod and connect prince for filling ANT-12 hydrenian			遺布にしていたがられる意	
15. Flace shimry desper horisortally to believant down. Operating through filler holes, fill arraing despers with clean ANT-10 hymalic fluid to level of body top edge 16. Serve compensator into shimry super body. Defore doing this, check contien of sealing ring, then servering in more sealing ring, then servering in more sealing tenants 17. Serve plug out of compensator of, serve adopter into rod and connect prince for filling ANT-12 hydrening			나는 그리 아이라야	
bellerank down. Operating through filler holes, fill Arraing chankers with clean AN-10 invalid facilities with clean AN-10 invalid filler holes of holy top edge 16. Serve compassion into shimy spec body. Before doing this, check continue of sealing ring. Then servering in population of sealing ring. Then servering in population be sure not to demany sealing leasents 17. Serve plug out of compensator of, surve siepter into rod and connect prince for filling ANT-12 hydrenian		Foreign fluid temperature should		والمتناء والمعارف والمتناء
Operating through filler holes, fill Arating clashers with clean AND-10 hy- mailst finit to level of body top edge 15. Sorw compassion into shimay separ body. before doing this, check con- letten of sealing ring. Then acreeing in momentum be sure not to demany sealing lements 17. Sorw ping out of compensator of, serw adopter into roid and connect process of filling ANT-12 hydrenian			1	
parating chambers with clean ANT-10 hy- results fluid to level of body top edge 15. Serwe compensator into shinay separ body. Defore doing this, check com- titum of sealing ring, then servering in compensator be sure not to demany sealing lements 17. Serve plug out of compensator od, serve adapter into rod and connect prince for filling ANT-12 hydreslin				
In Serve compansator into shingy super body. Before doing this, chock con- tion of sealing ring. Then serveing in separator be sure not to draws sealing leasents 17. Serve plug out of compansator of, surew adepter into rod and connect prince for filling AUT-12 hydrenian		(1) 电影中部 (1)等于图图的电路。	中央研究的 自动转换	
15. Serw compensator into shirmy sper body. Before doing this, check competition of sealing ring, then serwing in supersator be sure not to drawps sealing lements 17. Serew plug out of compensator od, serwe stepter into rod and consect prince for filling AUT-15 kylrenine				
separ body. Defore doing this, check con- lation of sessing ring, then servering in opensation be sure not to demany sealing lements 17. Serve plug out of compensator od, serve adapter into rod and connect proces of filling AUT-12 kylrening			建筑 医环门切除线	
tion of sealing ring. Then screwing in appearator be sure not to demanys sealing leachts 17. Screw plug out of compensator od, surew stepter into rod and connect prompt of filling AUT-12 hydrenian				
expensator be sure not to demays sealing lements 17. Screw plug out of compensator ad, screw adapter int of compensator rouge for filling ANT-12 hydreniae				
17. Serew plag out of compensatur d, serew saspter into road and consect prince for filling AUT-12 hydreslie				
17. Serew plug out of compensator of serew adopter into rod and connect range for filling ANT-IS hydrenline		14. 他选择的现在分词,这种自己的		
nd, surve exceptor into rod and connect prince for filling AW-12 hydrenine			■ 300 (25)、24: 15 章	
rriage for filling ANT-10 hydrenias			네 백 대학 수 있었다. 이 기억 기학	
			of the But November 1885	
<u>그렇고 그 그들어도 그러난 이 왜 존속하네</u> . 그가 먹는 그는 말을 하는 요. 그가 되는데 그것 같은 그렇게 가족된 [편화]		[관리 본 10년년 # 1년 1년 1년 1		nga a tha leigh

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Supplement to Inspection Cuido Bo.21	*100181	C 8 1 2 2 80.31	, in 7 spects
LANDING CRAS	CEARGING ANT-10 HYDRAULIC FAULD IN Y	.C. SECT STATE AND	Ren-bours required - 2,50
Procedure	Technical requirements	Peult correction	- Vige 1 - 1 - 1 - 1
18. Using syrings, charge AMT-10	Salar Sa		
field until fluid begins to your out in		[1] 6. 本中學[1] 6. 特色	
less air bubble-free Jets free filler	era colate abit todale di		2分44至5节
coles of operating chambers		化等等。有数据	o esta la come
19. Screw plugs into filler holes of		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
perating chambers and effect three or		一	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
our full turns of bellerank are from one			2007 12 The
rtrece position to the other			
20, Set are neutral and again screen			
lugs out of filler holes of operating .			
healers		They or harmed any 1997	进行 机连接放射
21. Once more pusp ANT-10 finis with	맞으로 되었다.		
yringe into shimy desper until it is		\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
jected from filler holes of operating	TOTAL CONTRACT TEATHER TOTAL CONTRACT TO THE STATE OF THE	*(*)	
banbers in clean jets, after mich stop			
luid pumping	深。2018年,李建位新疆的15		32.32
22. Scree pluge into filler holes of		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
persting chambers and lock them	일 : [[[10] [10]] [10]	マンドの情報を表現	
23. Using syringe, fill compensation	· 1985年,1985年,1985年,1985年,1985年		
abor with AUT-10 hydreble flaid.		的情况的 经营销的	
Arge compensation chamber until compen-		一种 为关系的 经验	· 是不是"是我们"
for rod extends by 24 sa.			
	그 : 이 회사가 다니다 그는 사람이 되었다.		
Keer shiray desper in this position	المبايين بالإربان والمساب		
aring 1 hours so leakage of finid at			
ody joints shall be tolerated	(요리) 18 시간 시간 시간 시간 시간 사람들이 되었다.	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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Janisin O Account

SECRET/NO FOREIGN DISSEM 50X1-HUM Sheek 7 Labored Star CHARGING AND-10 REDEATURE FAIRD IN L.G. SHOCK STRUTS AND ulred - 25 Technical requirements Pault correction 24. Esing duralmen rod, intermitterrily press ball of compensatorired man-reture valve to drain hydrarlic firid from compensator. This being done com-pensator red will travel down. Discon-tings fluid drainage as soon as white re-farince sark on red becomes littered with compensator cover surface. farince mark on rol becomes himsed with compensator cover surface 25. Serve plug into filler hole of compensator rod and lock it. Lock compen-sator to shimsy damper holy 25. Re-mount allimy Camper on struct and lock muts of strachment bolts and before forece of ablumy damper believes. hinge joints of shirty draper beiltrank Fixture for drain place of sing fact tanks, 72-7804-370 French for nut of sain L.O. strut shaft, 72-7808-30 -French for denoming L.O. nessented strut, 72-7808-37 Frenches, 9 x 11: 14 x 17 and 19 x 22 Screenives for a result of the said structure of the Schedulate, ton choss-elitted sched Screedriver, ordinary

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		多中的特別會	
Scylesent to Inspection Outle Se-21	PROCESS CHART	80.12	In 6 shoots Short 1
LANDLES CRAR	CHECK REPLICTION AND REPRISION OF	TWENES CHIT	Hen-toers required = 10,50
Protedure	Technical requirements	Familt correction	
1. Lift mirers by means of hydrau- lic jacks until its wheels clear ground 2. Make sure that main hydraulic	Fluid level in hydrealic reser-	If fluid level is)	
system is charged with AMT-10 hydrenlic fluid; to check, open filler neck cap of main system section reservoir and check amount of AMT-10 fluid by means of dip	woir should be between typer and lower reference marks on dip stick		
stick 3. Check position of L.G. control valve change-ever switch handle in cock-	Eardle of L.G. control walve change—over switch should be fixed in	3	
pit 6. Connect hoses from ground hydrau- lic pump to aircraft connections of main (Fig.53) hydraulic system of aircrafts	ERTRAL (ERTPAINED) position		
these connections are located at fuselage starboard side; connect ground electric power supply source to terminals of air-			
craft electric mains (Fig.54) 5. In cockpit: turn on circuit- breakers bearing inscriptions L.G.(MACCO) and FiAPS (MARKENO)			
6. Ergage ground hydraulic pusp and build up pressure in main hydraulic sys- tem	Pressure in main hydranlic eystem (as read by pressure gauge) abould be 210 -10 kg/cm ²		
and the second second			

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Seciolar O Res

Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM FIG. SI. COLVETTING CITCHIO ELECTRIC PROPE SUPPLY STAFFE SECRET/NO FOREIGN DISSEM

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50X1-HUM

Procedure Procedure Technical requirements Technica	Surplement to Inspection Suide No.21	PROTES	: I (2 + Sa.32	In 8 shorts	
7. Commanda, CLEAR LABOURS CREE! (OT ELOCIA). Door return of LACTURE CREE! (OT ELOCIA). Door return of LACTURE CREE! (INCORD. OF MACEN packnowledgement seed L.G. control valve change-over witch handle to ECHANTO (JEREO). In the course of Laming gear retrection of the end somewheel laming gear structs of retrection time; (a) synchronism in retrection of the and somewheel laming gear structs of three red indicator lights on L.G. indication board in instrument panel and retrection time; (b) spectuag reliability of struct racing sechanism; (c) seand operation of sequence (d) sound engagement of structs and sequence (d) sound engagement of structs and sequence interest in the sequence of the sequence of the sequence in the sequence of the sequence in the sequence of the sequence in the sequence of the	LARDING GRAR	GROW REPRESENTATION AND REPRESENTATION OF	of Parities Cours	Sex-bours	
(OF ELCEN). Doon return of LAKTHS GLIZ LEMED (SOTA OF BECKT) allowed persons seet L.G. control valve change-over which handle to MURICITE (IMPACO). In the course of landing gear retraction seet the following: (a) synchronism in retraction of thin and sosseshed landing gear structs and sosseshed landing gear structs and sosseshed landing gear structs in and sosseshed landing gear structs (b) specesting reliability of struct suring sechanism; (c) seamd operation of Sequence lives; (d) sound engagement of Structs and seed doors by up-locks; (e) seamd operation of Sequence lives; (d) sound engagement of Structs and seed doors by two-locks; (e) clearance between main L.G. Then retracted, L.G. doors and facilities about conform to consours of wing and fuselage. Clearances between fairings and siring and substances struct in an expectation of the sequence (c) sound engagement of Structs and seed as wheel doors landing gear in the struction of the retraction time red indicator lights on L.S. LIMING TRIMEO (III) specially retraction to there red indicator lights on L.S. LIMING TRIMEO (III) specially red (III) special respective and get engaged by their r		Technical requirements	Vanis correct		
indication board in instrument puzzl (a) spectronism in retrection of ain and somewheel landing gear struts of retrection time: (b) spectron reliability of strut urning mechanism; (c) seund operation of sequence alves; (d) sound engagement of struts and heel doors by up-locks; (e) clearance between meaning. (c) clearance between meaning atting and such as of the sequence etween wheel doors and fuselage akin at clearances between measured strut attring and fuselage skir (Fig. 55); (f) operating reliability of auto- matic wheel braking system at retruntion attin wheel braking system at retruntion	(OT EACH), Upon return of LANDER GHE LILIARD (ECT) OF RECENTARISHMENT Need L.G. control valve change-over witch hardle to ECHAUTED (FRRED),	as well as wheel doors should retract and get empayed by their respective up-locks with specific elicies; this should be accompanied by illumination			
(c) send operation of sequence alves; (d) sound engagement of strute and beel doors by up-locks; (e) clearance between main L.G. trut fairing and wing skin; clearances structs wheel doors and fuselage akin al clearances between nescences strut airing and fuselage skin (Pis.55); (f) operating reliability of auto- main sheel braking system at retruction attic wheel braking system at retruction	(a) synchronize in retroction of ain and somewheel landing gear strats and retraction time; (b) operating reliability of strut	indication board in instrument panel and by illumination of red lights LANDING GRAS METRICIED (SIGNA JEPING)			
trut fairing and wing skin; clearances etvean wheel doors and fuselage skin of clearances between nesembed strut skiring and fuselage skir (Pig. 55); (f) operating reliability of auto- stic wheel braking system at retruction into wheel braking system at retruction into wheel braking system at retruction into wheel braking system at retruction.	(0) sound operation of sequence alves; (4) sound engagement of strats and heel doors by up-locks;				
stic wheel braking system at retraction installed in cockrit should read	trut fairing and sing skin; clearances stream wheel doors and fuselage skin al clearances between assembeel strut siring and fuselage skir (Fig. 55);	fairings abould conform to consume of wing and fusalage. Clearances between fairings and wing skin abould be as specified in			
		installed in cockpit should read			7

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Supplement to Inspection Onide No.21	PROCESS	CHAR? 50.32	In C starts
Lieuzeg grar	CHAIR SECTION OF MINISTER OF	LANDING CRIE	Sheet 5
Procedure	Pechnical requirements	Pen18	required - 0.50
Ten to fifteen accords after flast up of red indicator lights place landing sear control valve change-over handle to HENTALL and fix it in this position; (6) extend flaps and check functioning of HITED LAIDING GLES (MEMOUR) light indication on landing sear indication board and aircraft instrument indication board and aircraft instrument panel. Estreat flaps 8. Extend landing gears give contants (LEMR LAYDING GERS and, upon receiving LAYDING GERS CHERS answer, place landing gear control valve changes over handle to HITEDED (EMILERO) per	Sometheel and main L.G. atrutts abould extend and get fixed by ball	Peals correct	
ettion .	linders; - L.G. ETTNUD green indicator lights should illuminate on landing gear indication board; - nonericed strut position ne- chanical indicator should go out from its pocket		

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50X1-HUM

Surplement to Inspection	PROCESS CEARS	bp.32	In 8 shrets Sheet 6
LANDING SEAR	CHECK RESPONDED TO RELESSOR OF	TWENTER OFFI	required = 0,50
Procedure	Technical requirements	Fault corrects	.coa
Ten to fifteen seconds after illusi- mation of green L.G. indicator lights place laming sear control valve change- over handle to NEFFALL and fix it in this position. 9. Check operation of automatic wheel briling system; to this end:			
(a) discomment electric commeter of Ja-2) trusmitter (antiskid detector) (on right or left main L.G. wheel);	equipment specialists Sots. directeft beginning with Serial Bo.747815 mas ET-028 braze whoshs with braking discs sade from		
(b) in cockpit: turn on circuit- breaker of wheel automatic braking sys-	powder matal, grade GUI-11 with finition coefficient of 0.2 to 0.21 bals sys- tem employs fixed valve with 1:1.5 reduction ratio		
ten; (c) operate cock to engage INDIAN valvo of EF-36 nessented brube system; (d) press brake control lawar and build to 4 - 5 kg/ca ² pressure in brake system;			

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Guide Bo.21 720CE-84-CT 182 10.32 SANDING SEAR -CHECK MENTALION TED EXCENSION ON STREET, COATS regained - 0.50 Pechnical requirements (e) close terminals of 74-23 tree Closing of terminals should re-sult in operation of two JUS3/1 val-res of main L.G. strut wheel and nose sitter (antiskid detector) connectors right or left E-62 main L.G. wheel; Ecte, Carry out checks or right as left wheels in succession. Check system for proper func-tioning by hand-trying af-brains of released shoels on beautrapproximately sire as-cepting from 1751/A calves vas of main LG, strut wheel and non-wheel being checked JUSAN valves relieve air pres-mure, and wheels become unbrahed. Opening of terminate should result in braking of wheels This abould result in operation of JUSAN valve of nonetheel, and Described hards become (f) couple electric cos JA-23 transmitter of main L.G. Shoel under tost and uncouple electric connesewheel should become released pector of FA-24 transmitter of mose-(meanwhile zain h.G. whools remain braked). Opening of terminals should result in braking of moseumeal (g) coupar (g) couple electric sommerter of 10. Check all three L.G. wheels for synchronous braking and releasing; check braiding time; this should be

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM In 8 shorts Short 8 PROCESS CRAFT BOND CHECK HUSTOCKION WED BELLEVILLE C& FTEDIAL CRYS LUCIUS GLA Technical requirements Branch, 14 x 17 for connection of hydraulic reservair A STATE OF THE STA SECRET/NO FOREIGN DISSEM

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Supplement to Inspection Gmide No.21	PROCESSORARE	Po 233	Is 2 sheets
ELECTED GEAR	BOTTOM OF MAIN LAG. STORY OF	ENT TUS SENS IND	Short 1
Procedure	?echnical requirements	AUT TABLE TORS	required - 0.
1. Doe betweele facts to lift and real until its cheele clear ground 2. Eith main LG, struts errended a sechanic locks of anio chaffs close sechanic locks of anio chaffs close locks and chaffs and facts and the chaff and fame tube betten (Pigs 5 4 57). For checking, lift theel as 20 4 51.	Clearance between step on wheel axis shaft and inner tube bottom should be within 0.03 to 0.25 -	Fmit corre- If clearance between the better is mailer of specified, at just clear intermediate bushings of sechanism control red. I	m stop and im or greater than not by screen wheel turning
		and sheet control red to red should freely turn u about its aris in bell s It is shoulntsly for down head of stop (bolz) shaft with a vise to ince	of control musica. Control offer hard offer ports.
3. Operate hydraulic jacks to lever craft		Since .	
Accessories	Set of feeler b	Pools Ledes (0.01 to 1 m)	

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Supplement to Improview	PROCESS CHART No.34 Resta	
9180	DESPECTION AND IMPRICATION OF VIDO ATTACHMENT JOINTS. (6.67 stem wing CHIMING COMMITTION OF PIPPLIARS AND RESTRICT WINDOW RANGES. (climits) below the Proceedings.	
Preceders	Technical requirements Frank sorrection	
1. Emove fairings (fillets) in front and aiddle parts of wing panel 2. Extend flags to gain account to	Ming panel is attached to func- lage by means of five attachment joints at frames Nos 1), 16, 22, 25 and 23 (Fig.56)	
ring-to-frame No.28 attachment joint (Fig.59) 3. Such wing-to-fuselege attachment foints with close (unlesded) gasoline and blow them with compressed air	Front fairing fastening servers should be driven out only by means of special accordingrap provided with	
and other state of the state of	pinned blade since otherwise scress locking arrangements will be designed	
4. Import attachment joints for cracks (use magnifier glass for inspec- tion). Then examining attachment joints		
rica). Then examining attachment prises pay special attention to areas of sharps bent elevants (fillets). Hate sure that bolt suts and wing- to-frame No.28 attachment bolt head are		
securely lecial. Then faults or fault traces are de tected (such as absering of nut locking sittings, loose fitting of bolt heads o nuts to attachemt joint structure, etc.	It is prohibited to shear looking of cracking is suspected test per- cotter pin by mit rotation, then conternal with asguarder impection as- conternal of the content of the content pay special attention to	
remove bolts of all attachment joints	areas where holt hade and and holt	コ ニ

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(4) reduce pressure in passmatts
470-000 (unin and emergency) to mano;
(c) lift aircraft by means of hydraulic jacks until its sheels clear

ground and install trestless (fack borses) under frames Fom 22 and 28;

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FIG. IF, ACCESS TO PAGITO-FUSELAGE ATTACHENT JUNT ON FRANCING, SETLAP EXTENCED

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	PROCESS CHART	žo. 34	In 7 sheem		
	DESTRUCT AND LUMBERATION OF VIEW	ACCEDENT JOINTS.	Sheet 4 Zen-board The quired = 0.45 (6.45 where M Action of the control ESS Secretary of the E		
Procedure	Testmical requirements	Pault correct			
(c) lower streams to jack horses under frames Nes 22 and 20; (c) bring twolleys to under wing locals and adjust them in height;	frolley should be installed under its respective eing; bell soc- let of eing should fit tightly over				
(h) resore fairings and fillets from sing leading edge and middle sec- tions; (1) remove covers of access holes	bell projection of trelley, the care- arc-chaped support of trolley chould fit tightly to wing leading days				
(1) discoment elleron control red					
aris look energing opening sable; (2) disconnect pipelines of hydron- les and memarite systems at wing arranh- ment joints;	To prevent penetration of dirt and furning of cats into pipelines of their hydronics.				
(a) discomect pipelines of crysto.	systems after their discommention it	O A			
Security and radio	adio connection terrainals should be				

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SECRET/NO FOREIGN DISSEM -50X1-HUM In 2 sheets 2 sheet? FROUERS CHART So.35 DESCRICE AND DESCRIPTION OF ALLEGE APPRICATED POINTS. Man-hours. op.s - beringe Fealt correction Technical acquirements 2. Screw out attachment scries of aileren bellerenk fairing and reaswe ediscon bellerent fairing and recover fairing (Fig. 61) 2. Incortarpia and serve off not; re-sove bolt which comples alleron control red with alleron-mounted bellerent Note. The Process Chart of removal of alleron 3. Nove alieron down, uncotterpin and scree mats off bolts of attachment foints in alleron root portion, and remove bolts (Fig.62) A. Howing alleron down, recove from its middle attackment joint two holts (Fig.53) which connect alleren link (shackle) with wing bracket 5. Lower atleron until middle at-techment joint link comes out of wing technent joint link ocean out of wing brentst. Bring sileron close to fuselage release contilever (not hinge) attach-ment elements of mileron and demonst allaron by moring it down 5. What attachment joints and open bearings with aleas (unlanded) gusoline and inspect then for cracks and corrosion. Eace cure that bearings rotate freely, without jumming

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Supplement to Inspection Guide No.21	PROCESSCRARE	20.35	To 2 storts
973KG	DESPECTION AND LUBRICATION OF AILESON CHECKING WEIGHT BALANCE BOLES FOR	ATTACEMENT JOINTS.	Men-house
Procedure	Technical requirements	Fault correc	required - 2.4
7. Cheak sileron weight belance olts for secure locking 6. Labricate attachment joints and serings with grade UMATES-201 labricant of re-meant silerons on wing (if they are been demonsted) reversing denomities procedure	Fig. 21 ALEXOL TOPICS AT A DOING GOTTON OF	DALE ATTACHEDY.	
Accessories		2001s	
Strings Magnifier glass, MIO Brush Sacket, sinc Tray	Socket wrenchen, i Screedriver for a Flat-mode pilers	14 and 17	

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842-ho-INSPECTION AND LUMBICATION OF FLAP CARRIADES guired - 0.50 Foult correction FIG. 64. GENERAL VIEW OF FLAF V Lee, 2 - best certifier, 1 - view correspond 4-point of flow exercit cylender executing If bearings run with binding or

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ing at end of outer guiding rail 2. Ch sirerest of earlier sales: remove cleap from and of immer guiding rails, to this end-stations cotter plus

Octio So. 21 **100**

tec locking pins
3. Econo fisp (Fig.64)
4. Unlock and scree off mrt. and disconnect hydralic cylinder operating rot from flap attachment joint (Fig. 65) 5. Soll flap becaused until cer-riagus clear guiding rails (Fig. 66)

6. Resove carriage bearings and state in clean passings.
7. Inspect carriages and bearings for exacts and dirk

S. Impricate bearings with grade

9. Fash guiding rails with elecan Casoline, inspect ther and cost with

Flaps can be hinged by 24030. Deflection angle is determined by measuring distance between flay root rib and wing: this distance should be 368 2 8 mm (this distance is mean standard; it may differ for each in-dividual sireraft, and is indicated in Levelling Diagree supplemented to such aircraft Service Log). Differenue in distances for right and left flaps should not exceed 2 mg. Sidth of gap between wing side and flap as Reasoured at rib Ec.2 with flap extend-

EROCZES CHART 30.36

Restard at rib Ec.2 with flar extent ed, should be equal to 52 2 4 ms Carriage bearing should rotate smoothly, without jaming or equest Otter mose should be securely held in bearing and should be free from erecks. Cages and balls should

Gaiding rails should be free from morning and cents, Graceing caused by mide bell supports shall 2

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Supplement to Inspection	PROCESS CRARY	80.35 ~	In 3 sheets Sheet 3
	DESPECTION AND IMPRICATION OF F	LAP CARRIAGES	Man-hours
Procedure	fachnical requirements	Fault cor	rrection
tigs Il. Check flap play at trailing tigs Il. Check flaps for proper adjustment and synchronous extension from ground hydraulic installation	Adjust erremsion and retraction motions of flip by means of evaluate of evaluating and expressing reality explored and the expression of t		
Accessories	Servicivor for Pitz-mose piters Branches, le x 1	Tools cross-slitted person 7 and 19 i 22	

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Supplement to Inspection Guide Ec.21	PROCEES CHAP		Is 3 shows Flowt 1
\$7,54	DESPECTION OF GUIDING PALLS AND ROT CHRONING TLAPS FOR SINCEROSOUS RUBBIS		Hea-boars required = 0,50
Precedure	Technical requirements	Pault com	
1. Command from coclepit: Clink Flaff! Upon receiving Flaff Cira scinceledgement, extend flaps by placi-	The state of the s		ctics
FIAIS (SAPPAIRE) controls to Effect; 2. Wash guiding rails 2 (rice 67	of guide rollers abould assume extreme		
and 68) with clean (unlessed) gazoline Sate. It is forbidden to carry out			
Baintenance operations in Cockrit when maintenance Operations in flap wells are being dene	and the second		
3. Inspect guiding rails and their	Guiding rails should be clean,		
strachment joints to make sure that loc	Hail races should be free for		
THE THE OF STREETHERT Joint bolts	Up to 0.5 mm deep grooving on rail		1997
are intact and guiding rails are free	webs caused by support balls shall be		
Irea scores	tolerated. Attachment joints of grid- ing rails should be securely festened		AND THE SECOND
4. Check flap actuating hydreulin	Buts of hydraulic cylinder-to-		2011年1月1日 11日日
cylinder for secure fastering to attach-	wing attachment joint bolts should be		
sent joint on wing, and rod - for re-	screwed fully on and locked. Erdrenlie	그렇게 돼. 없이 않게?	
liable attachment to flap: make sure	cylinder operating rod should be		
that locking fittings are intact and	fastened to attachment joint on flap		
Mitaurient joint muts are tightened	and locked in position		
5. Cost guiding rails and bearings	Apply EXATEM-201 lubricant to		
obmost	fulting rails and bell bearings spa-		

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Supplement to Inspection————————————————————————————————————	- 10 E	2 30.37	tarto l	
¥2103	LESPECTION OF CUIDING MAILS AND CHECKING PLANS FOR STREET, PLANS FOR STREET, POSSIBLE, PLANS FOR STREET, PLANS FOR STREE	PTIME OF VIANE.	* 3	
Procedure	Postnical requirements	Pault correction		
				7 7 7 8 7 M
				·
				• •
	FIG. SI. OUTER CUITING PAIL OF FLAP (MIT. 75)			***************************************
Accessories		Tools	3	
Syrings	Plat-gone pli Breach			·
			16	
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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 一丁 丁丁 日本 大大学 はいいい はんかい まるとれる しんしゅ SECRET/NO FOREIGN DISSEM 50X1-HUM St.on SEARS SEESORT In 10 sheets Smde Ic.21 PURELICE DISTOFFICE AND RE-TOLETIES Pechnical requirements Fault correction 1. Place aircraft on level ground to obvinte brockage of mains and pipe-lines of engine and sixframe during am-jointing of fuselage tail section. Selieve working fluid pressure in main by-draulic system and hydroelic booster ... recess to sero

2. Operate hydrenlic jacks to lift
aircraft until its wheels clear ground
3. Open covers of across holes leading to fuselege tail section-to-fuselage
none seculon attanement joints on frence
tooks (15,50) and serve off four nuts
of lower fuselage jointing bolts to provide installation of trolley
a. bring special trolley to under
fuselage tail section and fasten
fuselage tail section on frame Ho.25
(Figs 70 and 71)

5. Open covers of access holes lead-FIG. #. LOCATION OF JUSTING BOLTS OF FUSELACE MOSE AND TALL SECTIONS ON FEMAL NO. 25s. 5. Open covers of access holes les ing to sirerest controls and discom commol rods (Pig.72), Remote ispact pressure intake duct arrangements and SECRET/NO FOREIGN DISSEM

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Supplement to Inspection Ja 10 she Sweet 2 PUSELAGE PURTILIZE DISJOIRTING AND RE-JOIRTING Procedure 6. Definet stabilizer leading edge sction deem (Fig. 73).

7. Serwaget attachment screen, resure vent pigs. (Fig. 78) and demount tail fairing. Open scoses holes on top at free He, 50 and disconnect bolts which fasten hydraulic cylinder tooling bras pipes 8. In fuscione top, standard, open cover of access hole leading to stabilizer tonirols and uncouple synchronization (slaving) transmitter electric connector. Discoment six attenhent joints of Alterburger sawable section control role (Fig.75)

P. Mecomeot two hydraulic system pipes which run to jet notes fines control role children (Fig.76)

10. Mesors front ring with motals 2 POSITION OF SPECIAL TROLLEY INCIDEN FUSELAGE TAIL SECTION age to I section, 3 — practic trolley about under focu-tori section, 3 — pract the 25, 4 — frame No. 25. flep control bydreulic cylinders (Fig. 77) 511. Braces dreg chute with container streen and thermocouples

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SONT-HUM Service to Imperition Guide No.21 PROCESS SEALT No.M In 10 sheets Event 1 Service 1 For adjoining and dearenthing and dearenthing and dearenthing for re-joining and dearenthing for re-joining and dearenthing for re-joining and resourcing for re-joining and resourcing for re-joining and resourcing for the recovery to receive to Atain access to thermocomples (Fig. 79) 15. Haument wins from engine for an engine for resource adaptar 16. Haument inguise (Fig. 79) 16. Haument inguise (Fig. 79) 17. Haument inguise (Fig. 79) 18. Haument inguise (Fig. 79) 19. Haument inguise (Fig. 79) 19. Haument inguise (Fig. 79) 10. Haument inguise (Fig. 79) 11. Haument inguise (Fig. 79) 12. Haument inguise (Fig. 79) 13. Haument inguise (Fig. 79) 14. The strained Stabilities are sent and resource from connections of hydraulin pipes (Fig. 79) at quick-disconnect will pipe (Fig. 79) 15. Haument inguise prote side 16. The strain of the pipe (Fig. 79) 16. The strain of the pipe (Fig. 79) 17. The strain of the pipe (Fig. 79) 18. The strain of the pipe (Fig. 79) 19. The strain of the pipe (Fig. 79

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Guide Sc.21 PREMATE DISJOINTING AND RE-POINTING -Technical requirements Fault correction redio commectors (perform this operation collectively with electric and redio collectivity will electric and frince equipoint specialists). Encouple com-sectors with due care since they are not attanted to airframe structure 21. Unlock attachment fittings (rol-lers) of engine tailpips at frame No. 36 (fig.%)
22. Screw off eighteen muts of To obvious damage when rolling out fuselage tail section see to it jointing bolts on frame No.25 that functore structural members do not touch engine parts As soon as fuselage tail section is separated from fuselage by about 200 ar backward and tailpipe rollers 25. Insert drift bers in access heles slong reference line of aircraft both at starboard and port-sides and, clear rails it is necessary to screen using drift here as levers and gradually aving trolle off, carefully nore fus-lage hal section away from fusalige. As furelage tail section is being moved, tail section passes through mossle flars rie said that there is no catching of

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- 15 - 15 - 15	Suplement to Inspection Order So. 21	PROCESS CHAR	30.38	In 16 sheets Sheet 5
		Pusicals disposaring and re-	-POINTING	Ean-neuro re
	Procedure	Technical requirements	Pault ca	
	24. Serve tailpipe rollers out an required (Fig.85) 25. Be-joint tail and nose sections of fuscings reversing unjointing procedure.	d (Fig.85) Be-joint tail and nose sections Tighten jointing bolt mus at fame Fe.25 uniformly, strewing on diamonals.		ould be driven out by a bushing onl, and -5 am
	26. Upon re-jointing of finelage carry out extends inspection to sake carry out extends inspection to sake sure that all parts, units and locking flivings are in their proper places, whis date, close access hole covers which have been reported 2. After inspecting parts and unit for proper installisting it is absolutely for proper installisting it is absolutely	8		
	necessary to check find system, sirrorts controls and units located in fuseless hall section for proper functioning			
		FIG. 75 LIGHTS ATT ATTETETIVET VIA ATTETE S-G. CON ATTETE S-G. CON	CARLE SECTION THE	

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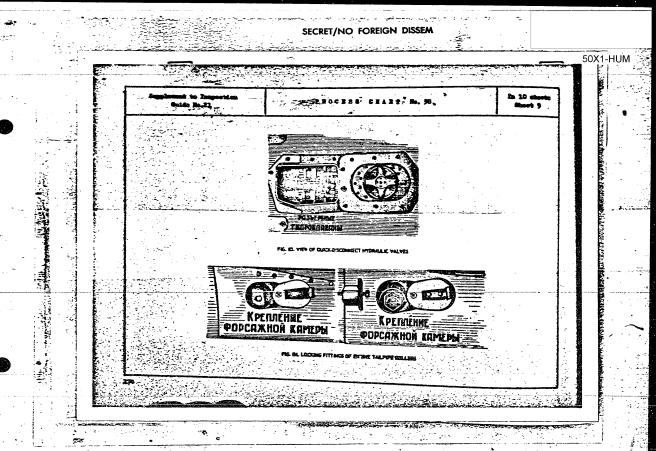
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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM -50X1-HUM Tie 10 sheets "PROCESS CERET Es. 38" FIG. 75. VIEW OF COMPARTMENT WITH WITH ME MARKER RADIO
RECEIVER LOOP REMOVED 3 NO FOREIGN DISSEM

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Suplement to Inspection	PROCESS CRART	Eo. 39	In 5 abouts
Totalogo	DISCOUNTING OF FUNELIGE INVESTIGATION OF FUTER AND AMERICAN FUTER AND AMERICAN SOUTH	LOCATED IN ENGINE	Man-hours required - 1
- Procedure	Tochnical requirements	Fault correct	ios
2. Unjoint fuselage tail section from nose section 2. Laspect fuselage inner akin and make ourse that it is free from deforma- tion (sarpage), burnt through spots and create			
3. Inspect pipelines and mocessories units) for leakage of ANT-10 hydreulic fluids and fuel; pay special attention to ommections and joints; ands sure that dipelines and electric harmons are attentioned.	Pipes and bunched electric conduc- tors should not touch edjacent parts and should be securely attached Zeintmin at least 3-m clearances	with worm down spots dec replace faulty pipes	traces of rubbing iper than 0.2 m.
d securely, that there are no surn down pots and that pipes and electric sires o not trach adjacent parts; sake certain hat locking fittings are in their right- laces and intect	between moving parts		
. S. If engine is removed, exemine	without jaming	If rollers fail to r them and wash in gasolin if washing fails to corr	e. Replace roller ect trouble
alther deteriorated nor swellen and that abber ring does not project from its	recease and should be free from bulging and deterioration List ends of valves controlling ear flow should be best out by 8 mm from air cooler shell	Replace bulged or de	teriorated rubber

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM The second secon FIG. 86. GENERAL VIEW OF RURSE'S SELLING ON ENGLINE NOTE: CONE AND ANDAUGENHAT OF AIR COCKER PLATE VALVES 1 — oir casion; 2 — abbor assing ying; 3 — plate value of air casion; 4 — from No. 22; 5 — decadorps ring of Fine Februag systems; 6 — beam No. 23; 177 **建筑建筑等** SECRET/NO FOREIGN DISSEM

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Sopplassest to Importion Guida So.21	PROCESS CRAIT	
/sec.	DEFECTION OF FINAL SELECTION OF THE CONTROL OF FINAL SELECTION OF THE CONTROL OF	MAN SERVICE LANGE PROGRES 1
Procedure	Technical requirements	Fault serrection
of cir evoler plate valve (make sure that tany are instart) a. Check rubber scaling at frame 90.22 for condition 7. Check condition of jet accels flag control hydraulic cylinder, attachment rods of recovable ring and sinks make		
neventh that these elements are intest [Fig.57]		
Accessories		700ls
Inspectoscope (adjustable mirror for in gut-ex places) Reseasion lasp El-166	spection of hard-to-	

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM-PROCESS PRART 50.40 Guide Ro.21 PUSITAGE INSPECTION OF COME AND ANTI-SCHOOL SECURIES CONTROL PROPARISMS Tochnical requirements Fault correction 1. Extend come namually to forward position
2. Turn out come attachment scree (slong the puriphery) and denount cone.
here come with utmost care so as not
to drange actuating system
3. Demount radio and reder antennas (This job should be performed by redio 4. Drive out antenna-nounting ring festening screws and remove Fing 5. Disconnect hydraulic cylinder operating roof from come soving tube as-subly, and remove come moving tube 6. Such come mechanism (inner fixed and outer moving tubes, come control sythen inspecting, make sure that fixed tube surface is perfectly (sir-ron-like) clean; it should be free from cracks, scores and corrosion. Soving tube should displace freely, linder-to-outer tube attachment joint) with clean unleaded gasoline, and inspect indicated parts and assemblies without jessing De-icer tank is attached to wall 7. Inspect de-icer tank for proper of fixed cone by means of three yokes 111 SECRET/NO FOREIGN DISSEMA

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Suplement to Inspection on Colide So.21	PROCESS CELET	Bo.40	In 16 sheets Sheet 2
PUSICIAN	INSPECTION OF COME AND ARTI-SURIZ SEVI	THE COSTROL RECRAPISES	Fequired - 1.50
Procedure	fechnical requirements	Fault correc	tion
8. Cost condition of light switch and cose control machining	Fastening screen of yokes should be tightened up and locked with NNS-1 wire. There should be felt pads under yokes		
Teab and examine fixed come surface 9. Apply thin layer of grade GRATE-201 labricant to surface of fixed come and come control cylinder community	Surface of fired come abould be oven and free from spots of scoring or attrition Aprily lubricant to surface of fixed cute with cotton wool wad. them doing so shift novable tube from one		
10. Re-mount radio extenns and one reversing desounting procedure 11. Artant unriscurge shurters by manual control 12. Vash control rods, attachment joines and hings camentages.	errus position to the other		
crants and anti-surge shutter control rods with gasoline and blow thes with compressed air (Fig.58) 13. Inspect central rods, attachment jounts, Lings contactions of believants and rods, and attachment firtings of hy-			
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Supplement to Inspection .	PROCESS CHART	Be.4C	In 16 shorts	
-	INSPECTION OF OWE AND ANTI-STREET SOUTHER CONTROL MOCHANISMS		Nan-hours required - 1.50	
Procedure	Technical requirements	Fault corre	ction	
draulin cylinders and pipes for corre-		- 4 Section 100	-	
sion, pracks and other faults; emmine				
lecking fittings for integrity and pro-				
per installation				
14. Imbricate all attachment joints				
and hinge doists of enti-surge shatters		は、と、着てき込むな	ราบรับเราได้	
with EMATON-201 Industriant				
15. Retrect enti-eurge shutters				
Checking Come Control Mechanism				
and Anti-Surve Shatters for Proper Opera-			-	
tion (Creek of Automatic Controls)				
A. Connect ground electric power	Check operation of come and anti-			
supply source to sircreft, Perfore the	surge shatters collectively with six-		•	
following on right-band consols in cocs-	creft equipment appointment	[15] · [2] [15] · [2] ·		
pit: tum on circuit-breakers COM (ED-	erer edulum mecialism			
DC), EGINE CHEROL LEVER INTERIOR				
(ENGEPORIA PTE), DIERGAGEMET OF				
BOOSTERS, HYDRAULIC SYSTEM INDICATION	1.为 统产的国际体验。	【文字数据》 医多型性		
(CELUTERE ET, CECTERE CRITE, PETP.)		1일 왕의 동안 다 걸		
and Fuel Regula Light Pierl Laws 1751.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
MINUTE PRINT INDICATION (ROMPON			-	
LANE TARRO OCC. POPPL & CRITER TREE		l same de de	* .	
METAL 3000001; on left-band console:				
warm paramete on tel papere consols:				

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Supplement to Inspection Guide Fo.21	PROCESSANI	Bo_40	In 16 shorts	
FUSIEA02	THE SCHOOL OF COLL THE CHARLES	TTM CONTACT RECEASISHE	Man-hours required ~ 1.50	
Procedure	factorical requirements	Fault corre	tion	
turn on cons- and anti-surge shatter spiriting change-over switches, select 2000 (LETOMIL) position, and turn on circuit-breaky: EALTHOM ADMANTED (60 CHI MINUSHIE) Turn on STORAGE BAY- TERI, AIRCHESTAROUED (ANDIFERROR TERM), AIRCHESTAROUED (ANDIFERROR EXTEND), ARRENDOMOUED switch on starboy				
place FRGIST PROCESSIES (ROSCEP) INTERPRETATION switch in engine pro- cessing but (located fown on starbourd aids in area of funciage frame Bo.16): "A" position	10			
2. Comment KNT-3 bester we dynamic mutic present holes of pitot-eit tite time "				

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Guide Fo.21	PROCESS CHART	Bo.40	In 15 sheets Sheet 8
	INSPECTION OF COME AND APPILISHED SHOP	BR COUTRIL MECHANISMS	Nan-cours required = 1.50
Procedure	Technical requirements	Fault correct	tion
12. Howe aircreft control stick forward towards neutral position (deflect stabilizer leading edge section up) 13. Hosest action control lever from EMERICA ADMINISTRO TO BAILDON ADMINISTRO Stop	As stabilizer leading edge sec- tion is deflected to angle smaller tham -20°, anti-surge shotters should close. This should result in emplo- ment of afterburner, AUGUSTED (60M- CAI) light should go out and anti- surge shutters should open		
Checking Operation of Air Intake Duct Cone			
14. Raise pressure in dynamic pres-	This action should result in	Then checking con-	extension rela-
Fure line of pitot-static tube to obtain	come extension to second position	tive to Each numbers, t	ake into consi-
pressure corresponding to second extend- ed position of cone 15. Apply hand effort of 40 on 50 ig to come in retrection direction	Come should not retract: this testifies to sound operation of hy-	deretion errors of Mach moter as stated in Cor- instruments	
16. Peduce pressure in dynamic line of pitot-static tube by 0.2 to 0.3 kg/cd	draulic locks Under this pressure the cone		
with respect to prossure of second ex- tended position of code 17. Reduce pressure in pitot-static take dynamic prossure line to value cor-	is a result of this action come should be retracted to initial re-		
responding to first position of come	tracted position:		

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Surplement to Inspection Unide Mo.21	PROCESSOR		
PERLICE	PROCESS CRAP		In 16 shorte.
	TESPECTION OF COME AND ANTI-SCHOOL SELF.	THE COPPER PROPERTY.	. Exp-horre required = 1.50
Procedure	Technical requirements	Pault corre	
ib. Saift engine control lever back and to UT-GTF position and set acres 2° on IA9-138 afterturner control at to initial position	EASTERN AUGUSTED stop enti-comps shutters should resain closed, into-		
Period Air Intele Duct Come and Anti	traction of angine control lawer		
Return pressure in dynamic and attribute of pitot-static system to Return of pitot-static system to Return of pitot-static system to			
Meshector switch to Mitual (PYWES) iiting and anti-surge abutters con- iclasse-over switch - to GLOSED METH) position 3. Piece sovable cone operation	This abould result in finable		
s selector switch to first extended ding	up of CSF KTINED indicator light on T-4 light indication panel, and in extension of come to first position		

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Strile So.21	PROCESS CEAR	2 9 Ro. 40	In 16 sheets Sheet 10
PORMA	DESPECTION OF COME AND ARTI-SURVE SERV	TTER CONTROL ENCHANIONS	required - 1.5
Precedure	Technical requirements	7eult oor	Twetion
4. Place switch to second extended position 5. Place switch back to first extended position 6. Place switch to EMPACHION 7. Reset anti-surge abouter control charge-over switch from CLOSED to GFM (COUNTRY) position 8. Reset anti-surge abouter control charge-over switch from CFM to CLOSED position	sion to second position Come should go back to first ex- tended position Come should berin its retraction movement; CER LITERUE Digit should go not upon complete retraction of come This should result in symmironous opening of enti-suge shutters This should result in symmironous closing of enti-suge shutters		
9. Place anti-cury abstrars control change-over switch and come operating mode selector switch to AUMO (AROME) and lock them with brans wire, 0.25 mm in lighterer. Reset ENGINE PROTESTING (MINISTER) RESET PROTESTING (PROTES) switch from "T to Predicting (PROTES) and hydraulic installation, generator and turn off all invultabreakers			

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Supplement to Imapection 'In 16 sheets PROCESS CEART So.40 DESPECTION OF COME AND APTI-SURES SENTING CONTEST. MICHAELERS Technical requirements

Control Lever by Hack Ember

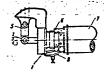
1. Turn out acress and reseve access sole cover from casing and throutle

control is socialit

2. Check presents and correct attechners of locking fittings (with seels) which couple SHO2/2 electrosagnet with locking sat and throttle control bracket

3. Check two-cycle operation of sto; weren Mach number limitations from ener-

wrest Math Lander Instructions from the disc Study electronagnet, thech in the following succession:
(a) sith operating rod of 2002/2 electronagnet extended, stop fing should be reised and pin on engine control lever thrull pess under it with clearance not should be reised and pin on engine control lever thrull pess under it with clearance not should be a should be first 90. maller than 1 mm, as shown in Figs 90



If for some reason or other locking fittings are missing, call for electric equipment specialist to thack 2002/2 alsotromagnets. Open completion of check re-arms electromagnet and attach new

A 1-cm displacement up or down free pin axis shall be tolerated. Fig. 91 across stop blocking backward novement of explace control lever. In case of femily operation (untirely tripping) of electronagent or clearment other than those indicated in Figs 90 and 91 act as follows—descent intentile control.

- disconnect 2002/2 electrosegnet

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Saplement to Inspection builde So. 21	PROCESS CHART Bo.40		In 15 shee Sheet 12	
FUNCTION	INSTRUCTION OF COST AND ANTI-SURGE SER	ITTER CONTROL MECHANISMS	Man-bours required = 1.	
Procedure	Pechnical requirements			
(b) with operating rod of \$2002/2 lectrosagnet retracted, stop flag should be lowered and bear along ords f pin on engine control lever		from belicrank installed beforegoet 380 - unlook and resove elections/2		
FEL SE POSITION OF PARTS FOR		frmine space before oper of SHOC/2 for absence of force Install electromagnet on control in sucordance with 716 taining 9-m distance between nut of SHOC/2 electromagnet. Theck operation of stop y install finitation (see text ab		
O-ECKING SLOCKING SYSTEM 1 - step log: 2 - pix on copies control lover, 3 - origins control lover.		If above mentioned be obtained in re-mount	Dr. 544mm 40	
		with the aid of adjusts tip (lug) of spring-loss ment over, safety rod at theck as instructed und	ed rod; adjust	
4. Check lifting of stop flag from ergency control button on throttle atrol	Stop flag should rise and pin on engine control lever should pass with not smaller than 1-ms clearance	Points of this Article		
	as shown in Fig. 30. Stop flag is lift and as a result of compression of			

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Supplement to Inspection In 16 shorts Short 13 PROCESS CHART BO.40 Ga140 50.21 PERLACE TREESTICS OF CORE TO THE SANCE SHALLS ONLY RESTRICTS Proteitre Technical requirements Fault correction spring-loaded control red which links \$802/2 electromagnet with stop flag Check as follows:

(a) retract operating rod of SCC/2 electrosagnet;

(b) de-energies 3802/2 electrosagnet;

acrat: (c) attach belicrank before 3802/2 electromagnet so that it would be in-sorable when operating rod of 3x02/2 electroacement is retracted;
(4) press exergency control button
to throttle control 5. Having completed thack lift energizer control button to fixed upper position, lock it with wire and seel as then in Fig. 92 Stacking Air Intake Dack Come for Correct Position 1. Connect ground hydraulic instal-lation to aircraft connection of main Position of air intake duct come should correspond to data indicated If measured positions of come dif-fer from corresponding data indicated in here'ling Diagram by nore than 12 m, problem of whether to consider newly ob-tained position of cone as serviceable heiralic aratem and build up working pressure in system in Levelling Disgram available in air craft Sarvice Log

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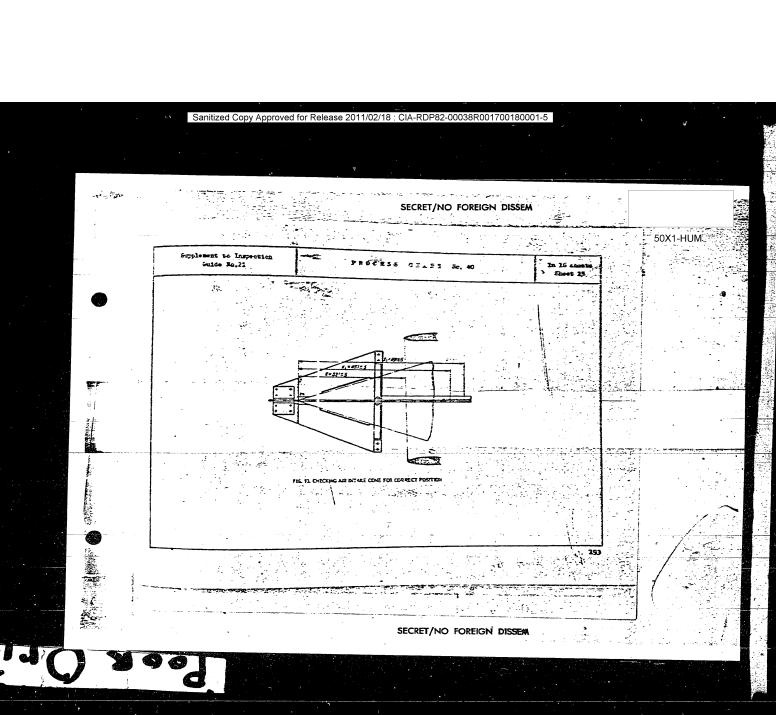
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Supplement to Inspection Eggie Bo.Zl	PROCESS CHART	Bo.40	In 16 shorts
PACAGE	HESPECTICS OF CAME AND ANTI-STREE SHATTER CAMEROL MECHANISMS		Fen-hours required - 1,50
Procedure	Tachnical requirements	Fault cor	rection
		or to correct Levelling Diagram with view to eliminating present discrepe should be solved in each particular jointly with Hannfacturer	
2. Figure come operating mode selector switch to MARCAL (FFENE). Operating come position selector switch perform 5 or 6 retraction-extension cycles of come, with its firstion in three positions (retracted, extended to first position and extended to second position).	tions within 22 mm in come positions as compared to deta indicated in Levelling Diagram shall be colerated		
3. Install special fixture (Fig. 3) on come to check come extension travel with reference to fixelings note come seing to it that inner surface of fixture fits highly to novable come surface. A. Operate selector switch to placement to INTRACTED position and measure disension "I" with the sid of ruler	trol cylinder has been replaced, as well as after all other operations which involve come adjustments, eb- tain those diseasions of come post- tions which are indicated in Level- ling Magram		

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Supplement to Inspection Guide Ho.21	PROCESS CHAR	T Se.40-	In 16 sheets Sheet 15
FURITACI	INSPECTION OF COME AND ARCH-SURVEY SET	TTTER OURTROL MECHANISMS	Hen-hours required - 1.50
Procedure	Tochnical requirements	Fault cor.	rection
Season discussion "E" by means of rule 6. Extend come to second position and use ruler to measure dimension "E". Come extension dimensions should be measured three times 7. Remove firture from come. Place come to fully retracted position and reset come operating mode selector	Dimension "I2" abould be as specifi-		
Mitch to AUTO (ABTURAL) 8. Disconnect ground installation brow sireraft Accessories			
Pixture 78-9871-850 for checking podest come Tester EUF-3 Ground hydraulic installation Ground electric power supply source	Screedriver fo Flat-come plie	r cross-slitted acress	

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SECRET/NO FOREIGN DISSEM 50X1-HUM_ PROCESS CHART No. 41 Guide No. 21 المراجعة PESSLAGS CHECKIST OFFRACTOR OF DRAG CHURK STRYES required - 0.30 Pochnical requirements Pault correction Checking of drag chute system (Fig. 94) should be carried out after re-jointing of fuselage 1. Place clean canvas under ale speriment of fuselage to protect church free fooling 2. Take seat in ecolyit and make mrs that pressure in pneumatic system is not lover than 50 kg/m² J. Turn on circuit-breaker bearing inscription DRAG CHUTZ (TCTMCGROX DAPA-4. Press button on instrument panel Pressing CHUTS PELLISS button bering inscription CHUTS ERIBASE (EMactuates electroposumatic valve which supplies air to chute doors opening LICE CAPABETA) cylinder. Doors should go open, and drag chote should drop under gravity drag chote should drep under gravity from chate comparisant container. Notes: Lines of the container of th 195 SECRET/NO FOREIGN DISSEM

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50X1-HUM -

Supplement to Inspection Oxide So. 21	PROCESS CRAFT	Eo. 41	In 5 abouts Stoot 3
POSELLOZ	CHICATES CHEVELOR OF DRIES	Core stere	Fee-hours required = 0.30
Precedure	Pechnical requirements	Familt correc	ties
	ahrte doors opening sommi (doors are spring leaded and go upen in brisk names;) J. Then opened, doors should resent in this position.		Particular in the control of the con
5. Pall charts cable from clamps and spir 5 to 15-kg effort to it; Fress paid-tutes (on socipit part side) bear- ing inscription, CEPTE JETTICOS (CEPCO LAURENS) 6. Esturn agrees to initial position	Pressing chute jettison button should open attachment lock to release		And the second
and safety clusts comparison the doors locally. Build up 30 kg/on pressure in security and repeat check of the chute system and repeat check of the chute system operation as instructed main Points 2 through 5 above 8. Wash chute door hinges with clean soline and east them with INTIN-20. shricant 9. Wash drug chute lock with clean resiline. Impact drug chute cable article			
ant book and eliminate burns 17 any			

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50X1-HUM

Supplement to Inspection	PROCESS CEART EO. 41		In 5 sheets Sheet 4 Bea-houre required = 0,30	
FISHAGE				
Precedure 10. Check Flags on centainers for integrity; is case of ruptures repair flags 11. Flace cherts in container and sount container in three comparisant of fuesdags. To this end: (a) fit chute cable ring into-lock—and close lock so that locking cylinder, acted upon by its spring, would return to initial position; (b) fit chute cable in clarps on fuesdags; (c) arrange container with chute in fuesdags; (d) covarient. Flag with rip—eable (cord) loop should be at bottom; (d) cover drug chuts with flags; (e) close chute comparisant doors (closed first should be door closest to vantral fin, and then—upper door),	Technical requirements	7ault cor	ault correction	
and frire cable fitted with safety job and flag through doors;				

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50X1-HUM -

Supplement to Inspection	PROCESS CHAR	9 So. 42	In 1 sheet . Sheet 1	
FISCAR	OF PURELIES BATHFRANCE ACC		Rau-horn required - 33	
Prosedure	Technical requirements	Foult correc	Pault correction	
L. Check condition of locks and special across which attach maintenance access hole covers to fuselage (both on port and starboard sides).	Fote, Carry out inspection of locks and severs after finishing all maintenance operations on furnishing and sing			
Then acrowing special screws in or out make was of special acrowdriver intended for operations on cross-elitted or curved-slit across	Access cover attachment locks should be intact and closed. Then lock is closed, order and of lock and pin should be flush with	If lock pin is depr	resed (minks),	
2. Check attachment screen of fusel-	skin. Make two red sarks on skin opposite lock slit as reference of closed position of lock Special screen shall be consider-			
60 access hole covers for tightness	ed locked correctly if serve cores case out to beer flush with serve heads	If special serve con out, turn out serve and faulty serve or replace	of ther wents	
Accessories				
	Screed	Tools river, special river, ordinary river for cross-slitted a	creus	

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PROCESS CHART Ed 43 % 5 cheet Best 1 پيد د CHICAGO OF BURNING CHARLES FUSICIACE Han-bours regulated - 60 AND RIBER JOHNS OF AIR SEATES Pechnical requirements Penit correction 1. In ecceptive read pressure gauge doction to make sure the hydraulic LPER. To obviste accidents during laid pressure in main system is sore operations in walls of side (front) air brakes it is forbidden to extend air brakes by working pressure of main hydrealic system (Fig. 95) 2. Open erose-feed cock in right 2. Open erose-feed cock in right then well to do this pull cock operating bandle and fix it is new position with the sid of special safety lock fitted with rod warning flag (Fig. 96) 3. Open (samually) both side (forward) air brakes (Fig. 97) 4. Open class lock on rear air breks and disconnect hydraulic cylinder red NINTS, from air brake (Figs 98 and 99, Ref.

air brake fully down since otherwise belly skin of fusel-

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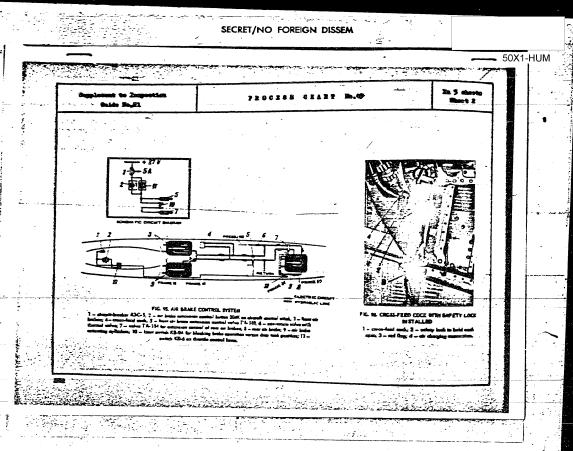
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Applement to Inspection

5. Secure air brake in open position
by seems of wire ourd and transverse pin with rubber gasket (Fig. 99, Bef. No. 5) 6. Vach air broke hinge joints, as well as hydraulic cylinder-to-fuselage and hydraulic cylinder rod-to-air brake



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nt to Ima The 5 absorbs Shoot 3 Onido Se. 23 2200288 6E422 E. 6 CHARLES ATTACHED OF REPART OF STREET AND ADDRESS OF ANY PROCESS Periodical requirements Pault con st jointe with alone gaseline (71gs 100 cmd 10%) 7, being electric illumination, port air bruke hings joints and spalls cylimier-to-funcions and dubless ettechnest joint from aircraft and ermine it either with negacions Pastering make of attochment joints should be screwed right he glimler rod-to-oir broke extendent Importion or paint method.
Feelty bonding elements a and lecked. prints to make sure that mote are reli-ably tightened, mut looking arrangements Bonding elements should be intert and struld meither get into attachand bunding elements are intact and ment (cirts nor rub against adjacent strachment jaints are free from cracks 8, Press-charge WATES-201 labricant Jare. FARSING.

Doon completion of all operaist: greene fittings of bings jointe and streement joints of sporeting rose of But a second second tions in air brake wells make sure that cross-feed cook is from and room air brokes. Wash and intrieste ball soukets of weiver almit afti printe which attend againsters of side air brakes, Access to ball occluses is stained by removing fairings and arms items, Each ball seakerts with gasolime, es arriage to charge them with Hi-S oil as cost with HATES-201 labelessis. 9. Erving completed all maintenance (a) sermest hydrunite sylinder red foor air broke and class class look the order-reverse-to-dissecontly;

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM ~50X1-HUM PROCESS CHART No. 43 Outse So. 21 Sheet 4 CHECKING ATTACHMENT OF REPRAILIC CYLINDERS
AND MINIS JOINTS OF AIR REALES required - 40 Fault correction (b) pross air braies to firelage; (c) close cross-feed took in right wheel well; to this end; mak valve stem forward and remove safety lock with red warning flag. Acted upon by its spring, valve sten Accerecates Inspectoscope (noting mirror for inspection of hard-to-get-et places) Grease sup Syrings Safety lock for stan of cross-feet cock of air brake, E6-9844-00 SECRET/NO FOREIGN DISSEM

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 4 4. 00 SECRET/NO FOREIGN DISSEM Supplement to Inspection Suida So.21 PROCESS CHART No. 45 In 5 sheets Sheet 5 FG. 97. IN DRAMIC CYLINGER AND ALAR AIR BRAKE IN EXTINCED AND FIRST POSTUDIS.

The services solvering cylinder, 2 – pyliner encodesor piece, 2 – close, 4 – un brace, 5 – two case for economic solvering or brack in expension postubion. SECRET/NO FOREIGN DISSEM

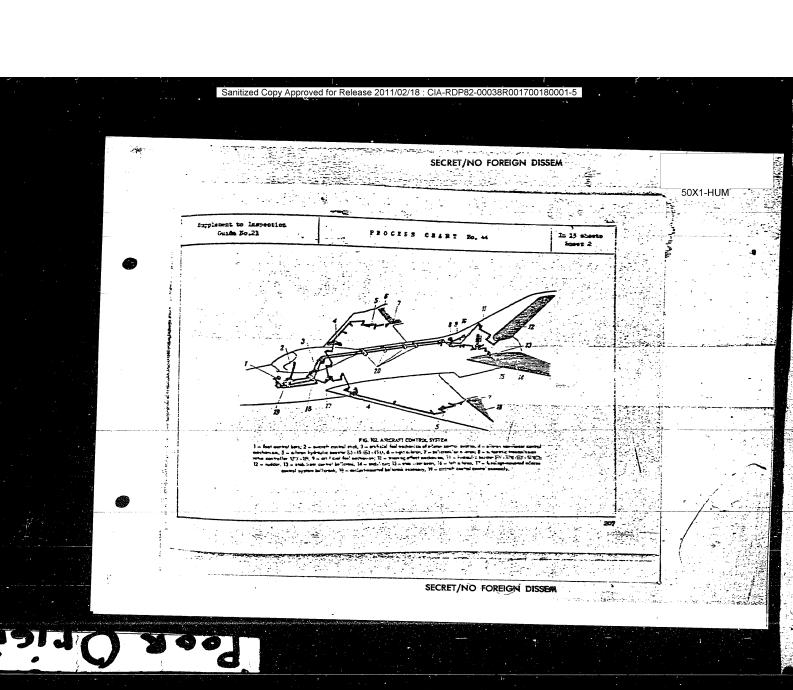
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Supplement to Inspection Smide So. 21	PROCESS CHART		In 13 sheets Sheet 1
ATRICEUPT COSTROLS	CENTRE OFFICE AND LESS FORTS OF ALL STREETS AND SERIE ANALYSIANT JOHNS, (SY-SINC) and SY-45 EDELILLO BOOKISS FO	DECRUTE CONTROL ROOS, CERCEING BY-51M TR PROVER ACTACHMENT	Man-hours required = 5
Procedure	Sechmical requirements	Fault correcti	
L furn out screen and renove cover			3
of access heles leading to sixuraft			
control assemblies located in fuselage			
superstructure, in wing (Fig. 104, Ref.			
Nos 1, 6, 10 and 12, and Pigs 105, 106,			
107 and 108) and in finelage port side			
(Figs 109 and 110).			
Turn out screes and remove fairing			
from APT-35 automatic transmission ratio			
controller (Fig. 111), cover of access			
hole leading to trimming effect mecha-		சிவுக்	
mism (Fig. 112) and cover of access hole	• !		
leading to hydreulic booster SY-518	Note. Stabilizer hydraulic		
(57-51EC), see Fig. 113, 1f they are	borsters FY-51M and FY-51MC are interchangeable, When		ار دودسمید اور در
51411 CB	E7-51MC booster is installed		
体机 統計 阿門 化二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	in place of EV-Six booster.		3.3
[생물: 장시스쪽 되면 : 17	no frictim sleave is nount-		
2. Wesh hinge joints of sirereft	Ball bearings of closed type	Should there be no	Inheleast 18
controls with clean gasoline	should not be warhed with gasoline.	closed ball bearing or	
3. Inspect control rods, ball bear-	These should be wined	or crupch be present in	
ings of control rods and bellerents, be	Herith clean cloth and sparingly north	ing, press-charge (by	
crance, support rollers of stabiliser,	with grade DATZE-221 Jubrace-	fresh HEATZK-221 lubri	
redder and elleren centrel systems local	-		CEDE INCO MIN
ed in elecreft cockpit, fusclage super-		bearing	
structure, fin, wing and function			

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Supplement to Inspection Suite No. 21	PROCESS CEÀRT So. 44		In 15 short Short 3	
ATROPANT CONTROLS	CERCLES CORPIERS AND MERICATION OF A BELLORISTS AND THESE ATTACASET FORMS (BY-SIMC) AND BY-45 EVERALLY BOOKERS I	AIRCRAFT CONTROL BODS.		
Procedure	Technical requirements	Pault corre	otica	
Lips 102 through 113) During imspection make sure that control rods and believents bear no recess of struction conset by sidecent making elements and aircraft structure substray see to it that looking firtings where; see to it that looking firtings check elementees between stabilizer of radear control rods and support roi- may make sure roller pins are properly check 4. Use grade Firthern libridear to cicate bell bearings of control rods hereins and support rollers of air- fit control systems (Pigs 114 and 125)	be not smaller than 5 mm. Tyeboltz (and lugs) of control rads should be screwed into control	control rod, measure po in eyebolt, release loc acres syebolt out. If threaded portion short of chack (referen	that eyabolt into rod thron this case remetition of services and the services of eyabolt is ceep hele who the state of eyabolt (example) the services are interest are into the services are followed as followed to obtain read of the services are services.	

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Semplificant to dispection Serious Society Fig. 10. Laverillo acres and is a section of the se

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FIG. IN. A LEVON CONTROL BELLCRAVE (BES. MC R.C. DES MODRIS MENO 'AS VIEWED THROUGHOUSE DE BORG PAWEL).

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Surplement to Inspection Suide Fe. 21	PROCESS CHAR?	7a, 44	In 15 chosts Short 7
ABOUT CIFICS	ENGLIS CODING AD MEMBERS OF A REMARKS AD THE ATACHET JOHNS, 64-510) AD 87-45 EDEALLY MOSTES F		Nan-house required - 3
2rosofurs	Technical requirements	Pault corr	A467 009
Checking 127-33 Arrematic Transmission			
Patio Controller System During Lingues			
and Altitude Practice Advantage			
(this work should be performed by			
special equipment specialists collective			
(ly with minimum specialists)	The state of the s		
1. In cockent: pure on AUTOMATIC	1. Check functioning of automatic		481.1
SEASSISSISS BASIC CONTROLLS (ASSOCIATE	transmission ratio controller system		
JP. 477) circuit-breaker on right-hand	with mireraft control stick released	1 5.7	
comole and make sure that 127 operation			
mode selector switch on left-tent comed			
is in AUTO (ABTGMAT) position	_		and the second rest
2. Discomment static line from	2. Then IFF controller operating	TO PERSONAL TO THE PERSONAL THE PERSONAL TO T	
Wi-106 transmitters to this end, mo-	rod in reset from LG STRED (MILLER		
couple U-shaped pipe bearing inscription	COMPOSED >= EIGS SEED (BORNERS CON-	110 mm 15 15数 5.2	133
"MC2-106" from commertions on starboard			
side and comment transmitter through	edge will slightly deflect drawerd or	1 : 국민 계 중인 및	
mispter Bo. 72-7702-170 to hose of	upward, respectively; this will be	★ 1963年 新 200 最	
EUF-3 tester	Becommend of the second of the second		
	accompanied by deflection of sircreft		
3. Commert one EIF-) tester to type	3. Remeter that APT automatic		
ale opening of mitot-static total and	and all all all all all all all all all al		
another E.J.; tester - to static opening	Started amount is calibrated at		
of pitot-static tube	reading of the state conditions;	1	المتحديد المتحدد
	readings of 179 indicator pointer		المحالية والمتاركة
	. 1	≱ : 5 1000 - 9 ± 21 5	- F

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Supplement to Izapection Guide Ec. 21 PROCESS CEART Sc. 64 In 13 morts Seet 8 CENTRI ONDRICE AD INCLUDING & ADVANT COMM. BOTA, ELICANIS AD INTO ATMINIST FORM, CECTLES SYSTEM ENGLISH AD 17-45 HIZZITLE MOSTES FOR PRIZE ATMINISTRA ATROPATE CONTROLS Procedure Fenit correction will differ from the 4. In cockpits set dynamic line wheter cot of protestatic the list and prior tube III-156 on left-hand as prior tube III-156 on left-hand service to CFRATES (PASOL) position 5. Operating from right-hand compole is coupit turn on STCRAGE RUTERY, ATM-2017-20020 of creut-breakers evidence. is compit turn on STURIES STUTET, ARE-CAUT-CROUND circuit-breakers this about realt in illestantion of STURLINE FOR LUISG (TANK, BA ROCAL,) indicator light on T-4 light indication panel 6. Engage ground hydraulic pump and mid up strking pressure in hydraulic locater system As doon as APV indicator pointer in its clockvise novement reaches 650 km/hr ALS, indicator light at 2-4 7. Bild up gauge (excessive) pressure the dynamic line and gradually increase indication panel should go out. Operating rod of APT controller should assume EUH STEED position it to a value corresponding to 1010 km/h 5. Create vacuum in static line of productly decreasing pressure to a value corresponding to 20,000 a altitude; the increase pressure to a value corresponding to 5000 a altitude. In position corresponding to 10,000 s altitude APF controller red should assume LOW SPEED position, At value corresponding to 5000 m altitude ANY operating rod should samue ENGS SPEED position

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Supplement to Inspection Onice No. 21	FROCESS FEAT		50X1-HUM
	CERCAINS CONTINUE AND LITERICATION OF STANDARDS AND THIS ATTACHMENT SOUTH'S SY-SIMC) AND EY-45 MICRAILLO SCOTTING	. 0333 335 67-616	Ecotors require(-)
Procedure	Technical requirements	Fault corres	
Sabr sure that AFF indicator readings are correct (by altitude scale) 9. Check full reserving of operating 9. Check full reserving of operating rod (from one extreme position to the order) 10. Unplug comments and connect — 10. Unplug comments and connect — 11. Cost AFF autosantic transmission reading commentation operating and with this layer of CKS-122-7 brackets 12. He-install covers of access holes and fasten then in place with acress	Time of full resetting of operating rod should not smeed 22 sec		
Accessories Brains Craise cup Clearence gauge with set of	feeler bleden	Tools mainiver for erose-slitted swiniver, ordinary and mainiver, and mainiver, and mainiver, and mainiver, and mainiver, and mainiver, and mainivers.	scres

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Seplanent to Inspection Juids So. 21	PROCESS CESI		1
ATRIANT CONTROLS	CEMENG PAU IN 1200M, MINISTER	the state of the s	Ebest 1
Procedure	Technical requirements		Ferniss - C.1
l. Fix sireraft control etick in		Pault correction	
d perities Substitute and check surely to make but there are no knock-accompanied	Absence of plays in control red and believes Mines will be deter-	In case of inoching	sound locate
it alleron central assemblies and	in central representation and	Zenity assembly and rep	lace bolt or
fit by elements of wing (check	sered by their trailing also		
i) Entermider by its trailing edge	No knowing in hinger shall be tolerated		
are are no knocking comments.			
or control acception and that had and believaths are not by elements of wing			
	프랑케 및 얼룩하다		

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Supplement to Inspection	PROCESS CHART No. 45		In 2 abserts Sheet 2
ATECRATY CONTROLS	CERCIDO FLAT DE ECEDER, STABILLES A	ED TITISGE CONTROTS	redares - O's
Precedure	Technical requirements	Fault correc	tícs.
4. Moving aircraft control stick forward and backward and checking sural- ty sales sure that there are no knowless companied plays in stabilizer course assemblies and that centrol rods and helicraphs are not cought by elements of fuselage			
Accessories	Screeds	Tools Des pliers river river for cross-slitted	
		TOP COSS-SILEOGG	

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Ecticsble sinking of rivote, as
well as their loose sesting in skin 2, lock (manually) and portion of reder weight balancer to check it shell not be tolerated Accessories SECRET/NO FOREIGN DISSEM

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Supplement to Inspection Onide Sc. 21	PROCESS C'SAST	50. 47	In a shorts Short 1
ADERUT OFFICE	LUBERCATION OF STABILITIES BARN BEAU CRASILLIES FAIRTICE SO		Pen-been Pequired - 3.5
Procedure	Technical requirements	Fault correct	dea
2. Josep stabilizer with leading edge dome 2. Topal cover of access hole leading to bearing (Fig. 116) 3. Farce HALTE-201 inhericant inno outer and inner bearings of stabilizer with the aid of syrings of stabilizer with the aid of syrings (Fig. 117) 4. Resorve fairings located under stabilizer to obtain access to stabilizer control role and believands (Fig. 118) 5. Disconnert control role from bell trains, and bonding elements - from stabilizer control role (Fig. 119) 6. Fastan appeals conve clamp on one of stabilizer sections (balves) (Figs 120 and 121) 7. Deficer trailing edge of one stabilizer section to extrane upper position (leading edge doms) 6. Book dynamater to serve clamp and lower stabilizer section by 50 to 70 ms, and then pull dynamenter builds dry in direction normal to stabilizer chand	Then imbritating bearings see to it that INTER-CO imbritant does not get into friction Emper Remainer that: (a) at low temperatures friction in stabiliser joints is impressed and	FG. 11: POSTLIN OF STANS LICE LUSPICATION OF REMA BE LUSPICATION OF REMA BE LUSPICATION OF REMA BE	DURNG PREMIT
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Supplement to Inspection	PPOCESS CE.	127 10. 47	In 4 shoots Snot 4
AIRCRAFT CONTROLS	INTRICATION OF STATILIZES PROFILE	PARTY AND CHECKING	Han-hours required - 3.45
Precedura	Toehnisel requirements	Fmili serre	
9, has reading of dynamometer at the rebilizar trailing edge begins to check dees 10. Comment control reds with chiliser control belinreaks and safety its with citer pins (see Fig. 116) 11. Becoment fairing and access holded, and featen them with acrevs	ment by effort of 13 to 21 kg as stabilizer moves. Stabilizer movement starting moment is not taken into considera-		
100025071		Pools	n negative d n drugden d
trease oup 72-7801/140 Friction moment test f E5-9872-00 Syringe Dynamometer	Screedrive	r for cross-elitted son	

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Supplement to Impaction Suide No. 21	PROCESS CRAS	1 Po. 48	In 20 stock
CANOPI AND COCKPIT	CERCKIEG CYEMATION OF CANCYL BERGG	EET JETTISCE STETES	inu-hours required - 1
Proodure	Technical requirements	Pault cerres	
Checking (peration of Piarbress Prive and Remover tim of (anort Decreps) jet- tifen System	Parties. During all operations in cockpit with seat denounted		
Prom Election Seat Pace Plant 1. Open emergy, unload remover gan and charge it with two drawny cartridges (charges) fixted with prison cape. 2. Relieve air pressure from main air system and from cannyn lifting both to zero. Sleed air with the aid of special fixture (fixture for testing pressure in carnyn lifting bothle through convection located in nonewheel	always have safety flooring laid. toload and charge gun col- loctively with ordnance specialist		
ocuted pressure garges and by pressure garge installed on device (Figs 122 and 123)	Air presure in easopy lifting		
3. Charge earnpy lifting bottle with compressed air using the same device	bottle should be within 50 to 60 kg/cm². Pressure is main air system should be sare. If those requirements are set, this seems that non-return valve operates nermal- ly		

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Supplement to Inspection Quide No. 21	PROCESS CHAR	? Bo. 48	In 20 steets Short 3	
CARGET AND COCKETS	CHRONING CHANTILLING CA. CYRCAL EMERGES	T JETTISCH STATEM	Sep-lous required - 9.1	
Procedure	fechnical requirements	Pault correct	tien	
4. Take seat in cockpit and look campy. Fitheres ground eafety lock from autonoscus canopy jettison hearles se that it would not herper checkeut operations 5. Brighly pull seat blind and check numrily that dispirage valve and dumy charges of remover gun are actuated; make certain that locking wire on these and on trigger is broken loose 6. Zelieve air from canopy phematic	Pulling blind should instante air Supply through purchased dispurage of where the purchastic listing cylinders to build up canopy resoving (tossing) pressure [5]			
fitting cylinders and remover (tossing) years with the sid of firmure for setting pressure in campy pnematic fiving bottle 7. Open campy namually; to tide	blind is pulled through 115 to 100 m, and explosive charge-accurated sechar-mine should be operated after 255-70 ms travel of bline; total travel of blind should be 356-70 ms. Errort applied to blind at smplosive tharpe-actuated secharines operation meant should not emeed 30 kg MARTIGO			
(a) turn canopy controls (Fig.124) contract (having retained control handle control (position);	Never open canopy before eir pressure in canopy possessic lifting cyliniers is relieved			

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM Supplement to Imspection CHESTING OFFICE OF CANONI DESCRIPTING STREET CURSPY 485 COCKPE Technical requirements Fault correction (b) the man sitting in cockpit should lift samually rear part of canon on the man operating from cotaids small lift canopy to required position listed; ground safety locks in persting rode of samply lifting witness C. Perryo disphraga assembly; act a fallows (penal) and save right-hand section of intrasent panel aside; (a) serw off mut of valve inlet immedian and remove pipe with filter; (c) remove two valve attachment (4) screw out inlet commercies (inc disphrage side). Ests sure that valve disphrage is mand and that primer caps of durry Disphrage abould be broken over an eros not smaller than 50% of tharges are punctured (Figs 125 and 126) pipeline section area 平常。 SECRET/NO FOREIGN DISSEM

SECRET/NO FOREIGN DISSEM 50X1-HUM Displacement to Improvement P 3 0 0 2 5 5 5 5 2 2 7 Page 45 The 17 Northick No. 17 of Foreign of the 17 page 5 Page 5 Page 6
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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM \$. A. T. . Oulde No. 21 CENTRIC OPERATOR OF CLEAR MARGINET STITLING EXTERNA CAROPT AND COCKPIE Procedure Then replacing disphrage in valve rescaber that bushing which carries disphrage should be set with its tepen 9, Clean disphrage walve and filter ims particles of broken dispirage with respessed sir, install new dispirage in why and screw on connection 10, 5st dispirage valve at operating portion inside valve; this is done to mitten and safety it with MIE-0.5 lock-(taper) edges of body during essenbly Il. Return canopy emergency jettleon gram to initial position and lock it Bengfie ... Line Cencità Turotomone is express 12. Unload remover gum, load it with my charges and look with MIX-0.5 wire U. Charge additionally bottle of any lifting system with compressed air aing special fixture for this purpose.
14. Check operation of disphrage walv and recover gua from canopy emergency (a) withdres ground safety pins from Senting rots of canopy lifting process-SECRET/NO FOREIGN DISSEM

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50X1-HUM

Supplement to Inspection Onide No. 21	PROCESS CHAI	R T Fo, 48	In 20 shorts Short 7
CARCEY AND COOKEYS	CHARLE GENETIC C CARET BERGE	PCT JETTIBOB SYSTEM	required . 4.5
Precedure	facinical requirements	Fault sarre	ti co
(e) turn canopy energency lettiess			1 1 2 1 1 2
handle fully down (to horizontal post-			
tion); this should result in breakage			1
of locking wire on handle and disphrage			i i
velve, and in operation of disphrage		[10] 이 조건되어 됐다.)
valve (disphreg: valve operates when			第二次 [1]
bandle is turned down by 45°);		1.5034 18.	- 1-1-192
(d) slowly pull canopy energency			1.35 3000
jettisch kandle beckmart as far as it	Soring headle through 25 to 30 mm		4
will go: this should result in breakage	will result in puncturing of primer		
of trigger locking wire	cars of remover gun dumny charges;		1.5
	Surmer arresent of handle by 35	v	
·	to 40 mm umblocks sest ejection gun.		
	Travel margin of handle in this case		
	should be at least 5 mg.	A STATE OF THE STA	سيومهوج والإس
15. Bleed air from cancyy lifting			
cylinders and lifting system using			
special fixture for checking charging			
ressure of canony lifting system			
ottle			
26. Marcally open canopy acting as			
ollows:		and the second second	
- turn campy control headle back-	1		4
and (having retained bandle in STCP		/	•
ositica)			
		12	1.1

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SECRET/NO FOREIGN DISSEM 50X1-HUM Supplement to Inspection Guide Bo. 21 PROCESS CRART No. 68 CAPOPI AND COCKPIN CHICAGO OFFICIAL OF CAROTI EXCENSION FERTING STREET Procedure Technical requirements - the man sitting in cockpit sho lift rear part of canopy and the man counting from outside of cookpit should lift canopy further upward to regained position ----te-install ground safety pins into merating rods of canopy lifting cy-17. Carry out operations described under Points 8, 9, 10 and 11 of present Checking Operation of Persepty Lock Orening System Ira emlosive charge-actuated system L Remove canopy morable section es follows: (a) open cover of fuselage upper from scress (hatch); (b) discomnoct rubber hose of doicer system munifold and renews musi-

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50X1-HUM

Suplement to Inspection Saids So. 21	PROCESS CRART	Fo. 48	In 20 sheets Sheet 9
CLEOPY AND COCKETT	CERCUIC CERUICO CE CAFORE RESPON	SCT JETTISOF STETSM	required - 9.5
Procedure	Technical requirements	Fault worres	tim
(c) open canopy, detach spring heak			4 1 7 7
of seat ejection gun blocking system and			
make sure that ground safety pins are	•		
installed in seat ejection gun sad	The second of the seco		
CHOOKS LANGUAGE GIRE!	★ 보고 보고 하는 보고 말했습니다.		
(f) retaining canony with hards	. [1] 1		التشكينية والمراجع
withdres pins from operating rods of			
campy lifting cylinders and remove			
ground enfety pins from operating rots;			
(e) operating from contrit close	1.	1 to 1	•
cusory by planing control handle to STOP			
positio;			
(f) resore two bolts of front hings	1		
locks of canopy;	e o descriptor de la companya de la	The second control of	estate e de electric
(g) operator sitting in cockpit			
should lift alternately front and then			
rear part of canopy; nearwhile two		har - 열면 되었다. 선택	
operators should denount canopy from sir-		علا بالبناب في ويه أبي في الساب	
maft.			
Canopy sounding is the reverse of	医甲基环 医自身性萎缩 克雷克氏菌		
enconting	그 하다 어느는 수 많아 뜨겁니다고요?		
2. Flace campy on special trestles			
ith provision for access to lock loops	BEVER place cancy to rest on		
	lock loops		

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Supplement to Inspection Outdo No. 21	PROCESS CEARS	Fc. 48	da 20 shorte Short 10		
CLEOPY AND COCEPYS	CHARLES OF CALLS OF CALLS SECTION	Man-house required = 9,30			
Procedure	factorical requirements	· Pault correct			
Aurost 5 to 10 kg weight (equal for each lock) to each lock loop as shown in Figul27 3, Essova fairing from time delay lata.					
Remove Akit3-1.6 looking wire and cless thiosel compound from looks 4. Serves looking plunger from remover gas and sommets special fixture for	lock energency opening system, lock		and the material terminal and the second sec		
checking canony lock operation to remove gas boty (Fig. 128). Comple ground air bottle to fixture	loope should clear locks, front hinge locks should go open, and rods of time delay locks should move to LOGES CLOSED position which will be deter-				
	nined by extension of operating rads from prometic cylinders (see Fig.128 Ref. No. 4)				
5. Open bottle valve and, uning France regulator, build up 6 hg/cm ² Personer this should result in breakage of locting wire on looks spening cylind-					
6. Close aide locks of carogy [Fig.129]; to do this:	Frozect lock loops from deart-				
(a) fit loop 2 into each aide look, tum arm 6 down and move down looking	they drop.				

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-	-	_					-	-	

Sapplement to Inspection Swide No. 21	7200355 CRART Fo. 48				
CAROPI AND COCKETS	CERCIEC OFFRATION OF CANOPY MORNEY	Rendered - S.R			
Procedure	Probatical requirements	rtios			
lever 6 by pulling it out with the mid		files Landbert			
of thin (0.8 to 1 mm) wire (attach wire					
end to hole 10 in lever);	- A subject of	The second of the contract of			
(b) install spring-loaded catches	Embers of loops should cor-	If numbers are min	Fine on looks.		
with spring tension of 3 to 5 kg heek- ing thom by lever attachment ing	respond to numbers of looks:	make them in red paint a	n lock meen		
(see F.g.129).	Bight side (sowards adversets	surfaces in accordance :	ith less mente		
Best close front hinge locks	nose):		-,-,-		
Pig.131) as follows:	(a) front side 50. 2;				
- move biggs: hock 2 and looking	(b) middle side So. 4;		-		
ever A backward and force both bell-	(c) rear side No. 5				
ranks 7 forward simultaneously, is a	Left mide (towards miroreft		1 N. A.		
esult, system of control rods and beli-	nose):	1			
Taries moves forward and looks become	(a) from side So. 1;	Logical Company			
Losed	(b) middle side Eo. 3;		7		
بالمستند والشاب بالمراب والقوام والمتحدث والمتحدث والمتحدد	(c) rear side 2c. 5	سينت بينا بكات وقادما			
	Check closing of side and front	If loops slip out o			
Ingire : [1] - 그렇게 하는 그리고 :	looks:	check lock closing proce	r erms receiv,		
	(8) loops, 2 (see Pig. 129) of	more standing proce	ATT OF SECTION		
	sice locks should not slip out:				
	(b) a= 6 (see Pig. 12c) ab-14		-		
7. Close time delay locks (Pig.132);					
this end: using screwiriver sink			100		
cs 2 of time delay looks, align look-					
& holes and safety elements with			and a file		
		similar in the state of the sta			

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Supplement to Imagestion Ouide To. 23 PROCESS CRARS Se. 48 In 20 mosts Sheet 14. CHECKL THE COCKLES. CENTER CLASSICAL OS CIRCLES ESPECIALISTES SERVICES Probated requirements type EET-1.6 lecking wire (Ref. Ec. 8). Fill book beles with thicoal empount, grade FE. Lastall fairings on looks Property Jettion System

8. Suspend 5 to 10-kg weights from loops of samopy smorgamoy looks as instructed in Point 2 above 9. Grip handle of duplicating omnopy sergency system and energytically guil it; this action should result in break-Then energetically pulled, duple cating system control handle should go loose and separate from carcyy.
Under gravity of weights loops lasve ate of locking wire (Fig. 130) look seats, Front hings looks go open 19. Peturn emergency look epering 19. Esturn emergency look opening system to initial position and elements of the state of the st domn dis. holes in handle sody and in roller inside body should be compy energency jettison control system install handle in sochanise and attach it to roller (see Fig. 130). Close eligned and cable hall should fit:

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Supplement to Inspection Guide No. 21 In 20 sheet Steet 15 7200256 CHART Bo. 48 CANOPT AND COCKPIN COLLEGE OPERATION OF CLEOPY RESSERVED SETTINGS SERVER Precedure Pechnical requirements Pault correction 12. Again suspend the some veights (5 to 10 kg) from look loops as has been instructed above 1). Srip handle and slowly roll it; as sore as all locks go eyen, dis-continue handle pulling and make reference mark on handle mable; then fravel margin of handle cable pull handle until it completely separatus from roller

la. Fot system to initial position
(slore locks as instructed in Point 6
of present Process Chart) Typon completion of all checks or canopy removal system and after look opening checks charge campy remover yeurs casers charge campy remover gun with two live charges. Then charging remover gun make sure that hig not is acreved right home but is at least 0.5 ms short of 15. Fach and lubricate parts of manopy locks and of campy exergency Nitisch mechanism on fuselage and canopy fastuning yoke butt end. Otherwise striker will have a clearance which will cause misfiring

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Supplement to Immportion	a 7			·	
Guido Bo. 21	7200232 CRA	R 9 Se. 48	In 20 species		
CYROLI YED COCKELS	CATCLES OMETION OF CTAME PROCES	101 SERCISON SISCEM	Em-tours required - 9.30		
Procedure	"schnical requirements	Pault corre			•
16. Safety system of locks and lock rol sectanisms (Figs 133 and 134)	Lookwire following parts: (a) rear look belleranks;				
	(b) resover gum; (c) disphragm valve of emopy omerging, jertimen system;				
	(d) asplicating cancey energency jettison ochtrol handle;				عامد لادا كنا
	(a) uncopy emergency jettison control headle; (f) line delay lock				
et Postantia	i.e.				•

Ascessorion		2702.8	jid ku taliyaji		
inture for absolving canopy energency; system, CM7/2-98208-00 Liture for absolving compay opening lo	Franches: 24	-purpose 117, 5 1 7 and 19 1 22			· • • • • • • • • • • • • • • • • • • •
Canal Control Control Control					•

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Applicat to Inspection Quide No. 21	PROCESE CHART	Ec. 49 In 8 about 1
CLESCOT AND COCKEPTS	SERVICE OF REPORT OF REPORTE	FROM ATRICASET, WASHING, Mon-how MOVING PARTS AND CARLES required - 0.
Procedure	Technical requirements	Yault correction
Precautionary Features		
Halts ours that ejection gan of sest	METER.	
a unloaded (if no firing hem been	Efection seat may be removed	그 하시아 나는 생각 있는 그것 ۾
mde)	from almoraft after ejection	医动脉性神经 難 医二氯甲酚
l. If canony has not been removed,	our has been oversted by some-	
ift it and move engine control lever	ment specialist	
breard	2000 0000000000000000000000000000000000	
2. Persove blocking bell out of		
unnel of ejection gun cylinder		골대하였다. 이 환경이다는 원이를
Pig.135, Ref.19)		
3. Discurrect safety pin of siection		计数值的 医电影
en from rod of ejection control cable		
4. Unfasten susphook of poli cord		
ar All-3 time release mechanism from	l '	Tanada in an ing kalabah big
oce on frame	COST OF STREET, ST.	Lin Marini markantakanakan
5. Discomment cable running to		
Lephrego walvo		الورسين بسنيل الإراعي تناسل مرب المعلم
6. Install tightening clasp on		문의 시간 100분 보냈다. 그 학교 10
jection seet stabilising the to	[마음 : 호존 나는 중 나를 하다]	잃어보다 이 보유 유민이 손길
west flaps from opening then reporting		
et from eineraft.		
7. Sithiray inserts which fasten		
per sheckle of besirest to sisculon		그 시간 아이 시간 수 있다는 사람이다.
n journals	i a	
		4.选择的产品, 1.00 mm

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Outde Be. 21 PROCESS CHART So. 49 ERSTAL OF MIND-ACCIDITE EXCEPTION STAT FROM ARCRAFT, MASSING, INSPERIOR AND LIBERTATION OF RECEIVING MOVING PARTS AND CAPACIO CANCEL WED COCKERS required - 0,45 Tecamical requirements & Become ejection seat from mirsuff. For lifting seat along guide mile, make sure that CFT-2 common or ctor (Fig.135, Ref.13) can be easily Install ejection sect on special 9. Yesh all himsed connections of at machanisms with close gracities and him them off with compressed air 10. Impact seat frame, particularly to maked seems for cracket examine If crecks are found in seat fra seat should be mithirann from service hinges and cables for condition, cor-Hinged joints should retate sitt out binding. Ots. 135) All streams of cables should be Cables with broken str IL. On sout exemine shoulder and int bolt restraint mechanisms 4 and reptures. Cable strends of herness lock should be sound and securely attached to barness unlock mechani 12. Check operation of harmons belts restraint mechanises and Al-7 time Please mechanisms foot-grip release

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J. S. S. Ball.

Crice es follows:

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CANOPT AND COCKPIN	decial of eliph-literatud electrics states despective and eliphication of electrics	FROM AIRCRAFT, WASHING, MOVING PARTS AND CARLES	Exp-berry Fractional and
Procedure	Technical requirements	Fault correction	
(a) cock A5-5 time release mechanism	AI-3 time release mechanism		
and lock it with flexible pin (Fig.135);	should be set to sparete in 1.5 sec		5 -55
(b) sock middle plumper of spring			A
sochenism and fix it in position with			
rod (Fig. 136);			
(c) cock extreme and plumgers of	and the second s	Land of the last state of the second	ndik i≟ ka kinda. Ka
pring motionier and lock then in post-			
ion with reds:	·*		
(d) install lock sleeve connected	Extreme plungers and lock alcore		
dth Al-3 time release mechanism;	should be installed flash with well		7
(e) remove rods locking in position	of spring mechanism		100
pring mechanism plungers;	- young avenue	4.0	
(1) comprejection seat with flying			
mit and parachute on, smooth out attents	THE PROPERTY OF STREET	THE STATE OF LARE OF STATE	1. The P.O.
ad close harmons look:			
(g) look foot gripe 9 by pressing			
top bearing of foot rests;			
(h) withires flexible pin of 11-3			4.1
ino relegas rechanism	Foot grips and harmes straps		1 to 1 to 1
	lock should open quickly and mithout		taj, suiter
	Jameing		
[작한 사람들은 기사 기능 No. 1]			
	İ		
			4.0

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		X1-HUM
Suplement to Inspection Onide No. 22	PROGRES ORART So. 49	In 8 sheets Sheet 5
CAPCHY AND COURTE	ESCHAL OF HAND-ACTUATED LIBERTUM STAT FROM AIRCRAFT, MASSING, INCREMENTAL AND HERMATINE OF ACCUSING MOVING PARTS AND CARLOS	Mas-tops required - 0.6
Precedure	Sochaical requirements Fault correcti	000
Report shelling spection of hu- ness strup retiralist nechnisms and foot-grip release system. Check over, place whole system to operation. Shell foot grips class accidentally, eyes then by accidentally, n a ports in inner sules of foot rests. Lock flexible pin of Al-7 time release nechnism with special thread 13. Ensure despere of ejection seet foot rests and check then for proper specialism. To title said (a) remove bolts fartening rots of	For locking use twisted card thread from core of abroad line I-5	
lath-side and right-side despure to an rectag (b) lower foot rests and bring despure out at easings; (c) min enternal importion of despure, wash bisped joints in genelism and inhericate with grease minuscent; (d) pull rots out of despure and make sure that they are free of dente, wicks and heales;		

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Amplement to Inspection:	- 25	
Quido So. Zi	PROCESS OFAR	I Bo 49 In 6 shoots
CLECK AND COCKAIN	MATIAL OF WITH A	Shet 6
Procedure	Zechnical requirements	THOU ADDRESS, Man-house St MOVING PARTY AND CARLES required - 0.
(e) nove role into cylinders, imora		Feelt correction
ers into casings and secure despara		
(f) clock dampers for proper opera- by pulling out rods and applying to foot resign,	Movement of foot rests should be uniform without any outping or jump-	If lowering or folding of foot re
Cost with greene Marres-201 all		Carps more or less time then mand-
i filete and cabies	Ship I im load is applied to foot roots their lowering should take	it indicates that dampers contain instituted assume of oil. Check dampers for quantity of
	Folding of foot roots under land	If required, and oil to degree
	of 40 kg should take place within 5 - 10 sec.	as follows: (a) remove damper from ment;
		(b) compress it fully:
		capacity, after which drain 1.5 cm. ca
		of oil; (d) screw plug on filler connectic
C		end lock it with wire EUE-0.5; (e) sount dasper on ejection sent
Cork anculaer belt restrains wire lock for proper operation, to	a.	and check it again for preper operation

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Supplement to Inspection Guide So. 21	PROCESS CHART Bo. 49		In 8 sheets Sheet 7
CARCET AND COCEPTS	DESCRIPTION AND LUBRICATION OF ESCHARISM	FROM AIRCRAFT, WASHING,	Men-bours
Procedure	Technical requirements	Fault corre	
(e) place parachete or nest pas, tain seet and farten shoulder belts; (b) release shoulder belts and sain sure that shoulder belts and sain sure that shoulder belts and sain sure that shoulder belt restraint mecha- niss sparates properly; (c) lack belts successively is all points and sake certain that shoulder belt restraint mechanism is engaged and that pilot can not lean forward. Fay particular attention to proper looking of belts in position required for ejection if the conduction position required for ejection like for eyect chartening flaps mecha- niss for proper chartening plans from stabilizing flaps; (a) resore tightening class from stabilizing flaps; (b) closel manually flaps for any rotation; (c) lower flaps; this dome, flaps should open fully and get locked in prepar position;			
(d) close flaps by pressing block through hole in horizontal flap of stret			

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Guide No. 21 PROCEES CRIES Bo. 49 EXCITE OF EXPLICIT PROPERTY AND CARDS CUROPY AND COCKPITS regulant - 0.45 ed loss flap by pressing off tire litch further sovesem of both flaps sould be dose simultaneously. Press flaps to beed rest and mount tipiesing class on them ifter someting ejection seet on sirtraft remove tightening class as

15. Hourt ejection seat on elecraft

flaps are held from spening by guide Flan sounting ejection seet on sircraft, make sure that empty exergency jettisco bandle sugages forked red of transmission mechanism

of campy jettisca system

ichricating gua levice for renoving canopy by means of crame levice for checking ejection seat brice for removing ejection seat by means of crame Clap for tightening flaps of ejection seat (?2-7804-220) than for tigatening flaps of ejection seat lot for loading spring mechanism of ejection seat (144494-110)

Pliers French (CE7804-794) for tightening part of firing mochemism striker French (E2-7854-213) for cocking striker of firing mochanics

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		경험 보면 전에 함께 보기는 것으로 있습니다. 프라이스 그리고 있다.	50)	K1-HUM
多的结构 高强力			:	
	Suplement to Importion			
	Guide Soc 21	PROCESS CHAI	l T To. 50	In 4 stocts
	A 199			Best 1
	CARCET AND COCKETS	ELSE FOR CARDITION OF CARRY 1242	C. WERICATION OF ENGIA-	Bea-bear
	A CONTRACTOR OF THE CONTRACTOR	1	o CONTRAL EMPIRE	required - 0
	Prosedure	Technical requirements	Fault corre	
	1. Check eanopy frame for crecks,		NATE OFFICE	Mica .
	broken seel and demegad protective cont		Appending when	1.0
	Ze Brazine carrers alone		100 Television 14.	
			Canopy with cracks o	
		areas (hairline cracks) is not fit for further use and should be with-	on Crees begats sporty \$	or arrivary states
	are built into cappy from (40 a	Crawn from service.	}	r - 8 502
	I June of the Culture J	The second of the second	If any hairline sore	•••
	3. Inspect canopy units made of mag- mentum alloy for corresion	ance eperations observe the following (a) carry should be covered with	" are round on glass panel.	
	Tor corrosion		PULLED SIESS WITH Deste	KY112-5
		1 A-COM SETTETAG AFFERDA	Polishing should be a with water-absorbing out	ands manually
		dust, rain, show and from mechanical	shourt of paste.	:02 636 63 <u>611</u>
		(b) should organic class be	Then polishing, min a	less first
			attend octateb. then arms	
		e sipe class with clean soft cloth setted with water and wrang;	rub area in circular move stopping to avoid heating	ments without
				er graes
		reserve fat by rubbing glass with dry soft cloth and some paste REAE-2	Polishing may be performire surfece of glass,	exped ever
	생물병이 적 한 경우 경우 기를 보고 있다.		Rever try to aliment	scretches and
		sipe class sim soft cloth soaked in	TITESTACTION OF +1	mir lesstim)
2	54	scap water (3-35-solution) and srung	ty means of smery paper.	
		out	<u> </u>	15 3
			the same of the same of the same	14.00
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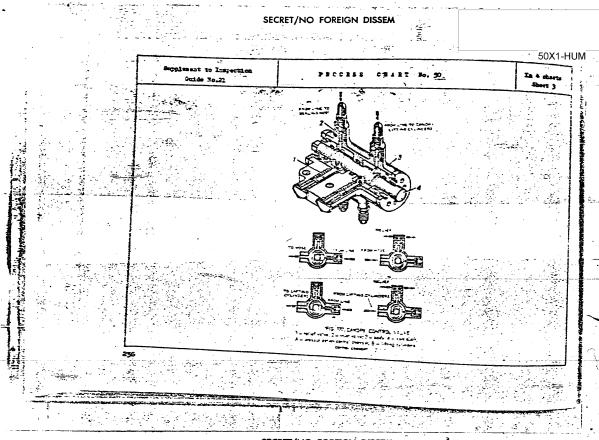
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Supplement to Inspection Onice No. 21	PROCESS CEAR	7 No. 50	In 4 sheets Sheet 2
CANOPY AND COCKETTS	CERCENC CENTER OF CHAPT PLANE, EVERICATION OF MICHA-		
Procedure	Technical requirements	7emit com	etics
4. Weah canopy outside and inside common handle mechanism (Fig. 1377) in leas gas.line and blow it through with compressed air	Organic glass may contain the following minor defects: (a) separate hairline scratches; (b) shallow acretches or accress not longer than 30 mm scattered over wide surface of glass. Fote, Der wiping glass, it is followed that the column or callificien to use woolem or callificate the tracel min color min glass as in this case surface of glass will extract dust particles	It is strictly forbidden to elivinet silvery areas by means of energy pays or by cleaning, polishing, grinning or local hesting	

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Deplement to Imspection Guide So. 21 PROCESS DEAFT So. 30 Int a cheere Deat a CAMOFF AND COCKYFT SIN FOR CAMOFF ENGINE COUNTY FRAME, IMPRINATING OF MORE PROCESSOR STATE TO CAMOFF ENGINE COUNTY FRAME IN PRODUCTS Procedure Secknical requirements Fault correction Secknical requirements Fault correction Accessories Accessories Accessories Accessories Labricating gen Accessories Filess Filess Filess

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Surplement to Inspection Quide Fc. 21			In 2 shorts Elect 1
	FRANCIES FOR ECENTRAL GENERAL SERVICES FOR TOTAL CENTER FOR FOR CONTRACT FOR THE SERVICES F	OF LANDING GEAR NOSE ING CARLS BURBER SEALUNG	Inn-torn requires - 0.9
Procedure	Technical requirements	Fault corrects	
I tipe the cable at cochpit side ith cotton waste soaked in garaline the cotton waste soaked in garaline 2. Inspect cable for mechanical ming of landing gear area strut	Note, if possible, prifors opera- tions on checking cable for mechanical opening of land- mark to the control of the possibility of the control of miles for centific and miles bot only after ejection seat and cover of compit flour here been re- served in view of this such portions are included in Section Takeny and Compiter	Feplace cables	
ependent extension lock, fets parti- miny instruct inspection of cable-to- die connection in cocipit and of the termination near lock lever, has table virus can be detected by ting have hand over emire cable table			100 A.E. 1888

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Supplement to Inspection Guide No. 21	PROCESS CHART SO, 51	In 2 shorts
CTECAL TED COCKAIN	POOL NOS CONTRION. CHECK ELECTRONICO (NECES ELECTRONICOS ELECTRONICOS (NECES ELECTRONICOS) (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES) (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES ELECTRONICOS (NECES)	Man-bours required = 0,50
Procedure	Technical requirements Poult corr	
3. Reserve cable scaling boot and here it for condition. Reserve dirt : out 4. Cost cable with thin layer of rease ELITER-201	from sealing boot of cable, replace de-	
Accessories Grosso ERATES-201	Polar Pliese Servetriver	

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Supplement to Inspection -	PROCESS CEAR	1 Ho. 52	In 2 absets Shoot 1
CASCET AND COCKPIT	CENTES COURTS OF HOT LES TENUL PUTERS COURTS STATE STATE CONSCION LINE ELO RESULTA	BETATICS AND JOINT PIPE AND CARCES	saderiseq - 0°10
Procedure	fechnical requirements	Fault correc	tics
1. Remove ejection seat from air-	-		
2. Check in pilot's cockpit thermal insulation of hot line for cockpit presurrisation system (Eq. 138) 3. Inspect joint between cockpit presurrisation system connecting pipe an amongs air blue marifold 4. Inspect cockpit air supply valve (Fig. 157), its attachment fittings and control cables. Cost cable with Interactol interieum 5. Inspect pressure regulator 5. Inspect pressure regulator 5. Tappect pressure regulator 5.	should be securely tightened and locked	If any wear or denage to their insulation is discovered, it should be eliminated. If connection appears to be loose, tighten nots or replace looing wire—	
ake sure that they are securely attach- d; check pipelines for secure fastening	The improved of the		
Accessories		?ools	
Individual gran	P2111	al presch (72-7804-1590) Trapose pliers driver	

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SUPPLYMENTS TO Inspection Supplyments to Inspection Solida No.21 PROCESS CRAZE No. 32 In 2 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 2 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 4 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets Size 2 2 In 3 sharets In 3 sharets Size 2 2 In 4 sharets Size 2 2 In 3 sharets Size 2 2 In 4 sharets Size 2 2 In 3 sharets Size 2 2 In 4 sharets Size 2 2 In 4 sharets Size 2 2 In 5 sharets In 4 sharets In 5 sharets

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Quide 36, 22 -	PROCESS CHART To. 53		In 3 sheets Sheet 3
CIRCLE TED COOKERS	BEFERRE OF THEMES FOR ALEX	BAFT CONTROL ECDS G HOSE	Mes-hours required = 0.1
Procedure	fechnical requirements	Fault correct	
2. Inspect scaling boot for allered common red installed in sockeit rear bottom persion to make sure that it is anned	Seeling boot should be sound and without any ruptures	If any cracks or rep discovered, replace boot	
2. Remove tail portice of campy (fairing) located behind couldit, for which purpose turn out screen and dis- connect wiring of enterms 3. Rearing rubban fairly and			
racter and stabilizer control rota; make sure that they are securely attach- ed to fuselage commercing pipes 4. Check control	Clearanna		
ruder and electron for condition from are located unice auxiliary flour of scalings, Check clearances between rods and cochet siructural electrons; between rods and cochet siructural electrons; sipe dist clear waste control rods of gile- comp, ruder and stabiliser; cost con- scattene with thin layer of INATES-22 whiteast 5. Import fairleads for coursel the of engine, ruder, stabilizer and licerus, Cost ends of rods and fair- aris sith INATES-221 Inhericant	Clearance stould be at least		

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Supplement to Impection Guide So. 21	P2.0C2.82 # # # # # # # # # # # # # # # # # # #		In 3 cheets Short 2
CAFOPY AND COCUPED	AND OF COURSE STATES	TO CONTROL NO.	Has-hours required - 0.19
Procedure	Technical requirements	Peult correcti	.
6. Inspect campy seeling hose for mor and demage to otome resistant cost ing (at black colour)	Scaling hose should be provided with comes resistant coating over its excites surface. Scaling hose should be free from deep thefing (of light colour) and creatin. Ence sticking scaling hose, the bottes of hose heaving sides of hose bottes of hose, bearing sides of hose free of cosent. It is allowed to use count fo.88 for sticking gashers not more than 2 as thick ande of natural FC671. Scaling hose is allowed to pro-	If hose is not prot resistant costing, he su To this end, cover here resistant varnish 2501 If deep thating or ed, replace hose he new Arylace hose he new L. Disconnect hase from air supply system, purpose, area off checi is cockpit 2. Remove hose from 3. Gleen church from 3. Gleen	re to restore it sreas with come (70 752). Cracks are detection one of the come of the co
	ject in ourvilinear some of cockpit outline by not more than 1.5 mm;	ing use of wash-out solu	rtics
	in remaining areas - not here than 1 mm; minking of home at any point ever its satire length should not amount 0.5 mm	and from bottom of small	ing hose making

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			50X1-H
Supplement to Impertion.	PROCESS CHAR		In 3 sheets Sheet 3
CASCOV AND COMPTS	AND OF COORDER STALLS	RAPT CONTROL BODS FG BOSE	required - 0.1
Procedure A	Technical requirements	Fault corrects	
		5. Apply thin layer to herizontal surface o bottom of hose and smit	
Locasories		Tools	
	Berosi Trench		
		وأبالهوه فأرأت أراري والراري	

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Supplement to Inspection Guide So. 21	PROCESS CHARS	lo. 54	In 2 shoots Short 1
CARGET AND COCKETS	AND CONCERN IN POR PROPER	PAPE, MOUNTING CANONI OPPRING AND GLOSING	Mon-hours required 2,00
Procedure	fechnical requirements	Fault correc	tion
), Hourt face blist actuated ejec- tion seat on aircraft reversing dismantl- ing procedure. To this end: (a) install tightening clamps on stabiliting flaps; (b) connect lifting device cable to			
est; (c) lift ejection seat and lower it into guide rails; (d) install inserts fastening upper closp of seat beadress to journals of ejection gun; (e) comment cable running to			
tiphrage valve; (f) consect sump hook of pull send for it—) time release mechanism to clamp a frame; (g) load ejection gun and econoct			
Mering cables 2. Nounting canopy on aircraft is the reverse of dismantling			

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Supplement to Inspection — Smile No. 21	PROCESS CHAR	T 20. 51	In 2 shorts Short 2
ध्यक्त के अध्य	AND CESCURE IT FOR PROPER OF		Per-tours required = 2.00
Presedure	Tochnical requirements	Fault correc	tion
3. Charge air to aircraft air syste through charging commercian located in minimediae well of laming gear min street whos! 4. Perform check opening and closis of enemys by operating inside and certained cancyr control handles; theck cancyr energypay jettisch system.			
Rose for charging air into aircraft Tightneing class Berios for charing cochrit for tigh	Plies	Tools at wreach b. M x 17 (2 pieces)	

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Supplement to Imspection Cuide So. 21	PROCESS CHAR	2 So. 95	In 8 shorts
CTRCLA TRD COCKESS	PROTES AN EXCHANGE	BOTTOM PROD	Sep-hours
Prosedure	factorical requirements		required - 1.90
Reserval of Fireties Sept		Fault correct	· · · · · · · · · · · · · · · · · · ·
1. Open canopy 2. Hele sure that all ground safety pur are imstalled	Ground safety pine should be installed in the following points (Fig. 140):		
	(a) in head of ejection gran PGE 2500-36; (b) in canony emergency jettisca		
	handle: (c) in plangers of firing mechanisms 215 and 2150 (in two cylinders)		
	(d) is hinged supports brackers; (e) is armests of ejection seat (armests should be closed with		
	notal covers); (f) in roller of four-link mecha-		
	size for control of firing mechanisms 2150; (g) in foot rests when in top		
	position; (h) in firing sechanism 2351		

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Emplement to Impection Guide Zo. 21	PROCESS CEARS NO.	- 55	In 8 abouts Sheet 2
CANOPI AND COCEPTS	EDROVING AND ROUNTING RUNCHION	SMT	Nan-bour
Procedure	Technical requirements	Fault correc	required - 13
3. Unlead the following firing sectaminants: (a) seat ejection gun TUE-2500-36 (to be performed by the armanent amp); (b) firing sectamina 2150 of drogue chute (one cylinder); (c) firing sectamina 2156 for		te. Firing mechan and 2157 shou unloaded with installed on	isus TCM-2500-36 ld be loaded and ejection seat sircraft chanism 2157 am loaded and the
disengaging and separating campy from boat (two cylinders); (1) fring sectamies 215P for m- locking pilotis safety harness (one cylinder) 4. Disconnect cable of pin for dropps chris firing mechaniss 215F from strachment fitting on aircraft			
5. Discriment control cable from pin of firing, sechanics 202-2500-25 6. Blacoment cable of Ar-3 time release sechanics from aircraft ettachment fitting 7. Macomment cable for opening hinged supports (for canopy) from bracket on cockpic floor			
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Supplement to Inspection— Onlde So. 21	PROCESS CEAR	2 No. 55	In 8 sheets Short 4
CURAN VED CONNELS	CARRY AND COURSE HEAVING AND MUSTING MANY		Man-hours required - 1,3
Procedure	Technical requirements	Pault serrect	
8. Remove lower black of common commentur CFI-2 and close it with sever 9. Scree out threat servers of hooks looking [commols of firing sechedaes in attachment units on bear CI-5100-500 10. Secure hoist (crume) on sjection sent fournals and lift sent alarly. Through ping commenter of supply conductor for electric motor NF-10001 used for adjusting sjection sent to plint's height. For parsons should watch the sent coming out of cochpit (on both sides of cochpit) 11. Install ejection sent on special presents			
Ecuative Meetics Sect on Minusel. 1. Iced firing mechanism 2150 for disengagement and reparation of energy from ejection seat and firing mechanism 215 for unlocking pilot's harmon, efter which insert ground seferty pins in plungers of firing mechanisms 2. Insert ground safety pins into holes of bracksta on hingel and foot			

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Supplement to Inspection Smide No. 21 PROCESS CEARS SO, 55 . . 10 to 10 CANCET AND COCKETE STRUCTURE STRUCTURE STATE Procedure appears and in our rests of ejection sets, Close are rests with metal covers 5, Install ejection gas TCM-2500-36 in aircraft attachment beam (provided species gas has been removed from air-craft). To this assis. -30 craft). To this end: (a) turn off screen out of ejection (b) deflect one of ettechment rods (see Dec.96-9100-173/1) and commect red to journal: ic) deflect second elastic red side wy and connect it to journal; (d) turn survey with weaters into pursels (install serves on size white) 4. Turn off thrust acress of lock-in hours in joints of ejection seat effectment beam if they have been in-rialled (see dug. CX-9102-533) 5. Lift ejection seat by means of him: (or crame) and more upper rollers int seat guide profiles 6. lower seat elowly immide cockpit. Then lowering sect, make sure that side pine of foct rests have extered guides in cockpit floor and that foot grips remain opened. then make stop to comple power supply

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Supplement to Importion Onice No. 21	PROCESS CHARS	No. 55	In 8 shorts Short 6
CUROFT AND COCKETS	STATE THE SOCIETY OF THE STATE	THE SEAT	Man-bours required - 1.00
Procedure	Technical requirements	Pault corre	rties
bunched conductor commetter of electric beter for adjusting seat to pilet's height. This doss, lower seat urtil upper journals of ejection gun bear against seat catches 7.5 Turn home thrust acress of hooks in ejection seat attachment bean joints (dws.CL-5107-533), locking thereby journals of ejection gun 708-2500-36 in attachment joints 8. Cumment to special lags in cock- plt the following elements: (a) cable from pin of drogue chute firing sechants a 259;	Then lowering seat, be careful not to desage throttle control lever, for which purpose, are throttle control lever ferrant and rearward while lowering seat		
(b) cable of time release secha- nion Al-3; (c) cable for opening cancpy kinged supports (i.e. cable running free cross that't which locks hissed supports) 5. Comment lower block of common connector CRI-2 with cable to middle block of east 10. Lesowe ground safety pins from changers of firing sechanism 2150 and			

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N 26. Supplement to Inspection Guide Bo. 21 CANCET AND COCKETE EDECAL AND EXCELLED PARTIES PART fectated requirements Fault correction from breakers of foot grip hinged 11. Lord firing mochanis reacyon-36 and 215%, install ground safety plus and exament them to ground safety pin cable of ejection seat Besting Dropus Couts on Election Seat shape of plunger of firing nochanies 21% by aligning container plate holes hope

2. Making use of lock plan fartes
the of plunger together with container
plates and harvess belt ring, having
protosaly placed belt ring between
plates of container at its right side 3. Lock pins with locking wire 4. Fro.ve ware with seeds from ent of container plates, otherwise Container will not release dropue chute in case of patiting one

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Supplement to Inspection Suido No. 21	EROCES CRART 20, 55	In 8 shrets Sheet 8	
GAROPY ARES COORDER	RESEARCH SOUTH STREET, STATE STATE	Hen-house required - 1,30	
Procedure	Technical requirements Fault cor		
5. Pasten map heet of shrond lines cover to he in right-cide ben of headwart. For removing drogue chute reverse installation procedure. Price to rescring container seel it through and holes of its plates			
Accessories			
Device for removing seat from cock Crame	OCCUPANT AND		

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Suplement to Inspection	"		
Guide Bo. 21	220C255 C#42	2 30. 56	In 26 shorts
CTROBA TRD COCKD-25	CERCYING OF PRINCIPLE PEVS INCHE VED CYR		Sup-hours
Procedure	Technical requirements	7mlt corre	required - 3.00
1. Unload firing mechanisms 202-350-38 and 2157 (Fig.141) 2. Remove ejection seat from airmat 3. Unload firing mechanisms 2159 and 2156 4. ifter armament specialist has perforsed check of firing mechanicms for proper striking of primor cape and has cleaned mechanisms, perform check- ing of seat, larpect and check the following catiral cables for burns and proper facturing in oable shoes (a) cable running from seat arm nuto-release lawar to cross shaft of met pan; (b) cable running from plunger over of firing mechanism 215P to pin of firing mechanism 225P to pin of color running from shoulder (c) cable running from shoulder (d) cable running from shoulder	yi-ing mechanisms are to be un- locded by armanent specialist bings: Even accomplishing shadned maintenance operations on ejection seet, it is forbidden to make any adjustments, since all mechanisms have been adjusted at manufacturing plant Gables should be free from broken wires (or burrs), Gables are to be checked visually and by hand- feeling then (at accessible places)	If broken wires are cable about be replace	found, defective
is 215 to strachment point on sent			

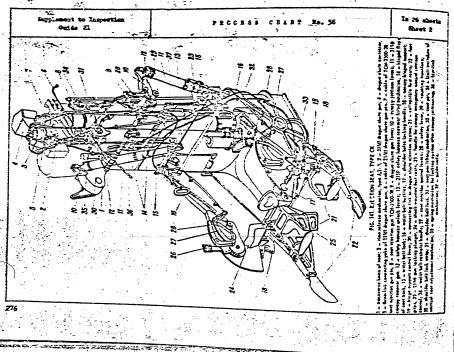
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Supplement to Emspection In 26 shorts Guide So. 21 7200258-58487 To. % CHARLE OF THESE SET ALLS THE CHEST HE MAKE CHARLES CARCET AND COCKPIN (d) shoulder lock reel locking sale running from the ratchet per Later to shoulder harmons control lever a left-side arm rost; m let-side arm rest; (e) cables (one rightside and one list-side) for whist belt restraint schanizs, running from bandle on right side arm rest to looks on rear side of seet pana (f) cable rurning from seat ejectic large to roller of firing mechamim 2154 for separation of canopy from seat; (f) cable running from pine featur-ing container of drogue chute to head of firing sechaning 2551 (h) cable running from pin of firing schanins 2551 to aircraft structure; (i) side supports opening cable runmix from rocker of look sectors cross that to bu (bracket) on cocket floor thecidne of cables ever, cost than the ELETH-201 inbriesms

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Supplement to Inspection Quide No. 21	PROCESS CRART	No. 56	la 25 storta Boot 6
CARDET AND COCKETS	CERCULOR CE RESCUENCE SZAT TERMS AND CAR	NS FOR PROPER OPERATION	Rea-logs required - 3,00
Procedure	Technical requirements	Fault corre	
5. Imspect sect cables and parts for correction paying particular attention on parts nade of electron and painted green. 6. Cost with TRATES-ON Imbricant all hinged joints of sect cables and learnings of all sharing; see that they are laviably imbricated. 7. Check adjustable section of common cables for intert seeing and locking. 8. Remove cover from case of transfer roller and cost it with TRATES-ON			
Inhericant 9. Penows jacket from ejection eset lifting screw for adjusting sent by pilot's height and cost screw li- berally with FAITM-201 Inhericant 10. Cost with HEATM-201 Inhericant guide rails of seat lle Replace grease in housing of electric screw M-100-III reduction gear in the following manner:			

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Supplement to Inspection Suids So. 21	PROCESSORLES	Io. 36	In 26 shorts
CTICLE TED COCENIE	CHINAIRE OF ELECTION STATE OFFICE VED CIN	IS 100 PRIME OFFICE	Man-hours
Precedure	Technical requirements	Pmlt c-	required - 3.00
(s) serve off plug provided in httms of electric noter reduction gear lessing:		and the state of	
(b) was reduction goar compertment and alone gracitos and blow off eith			
(c) per freez lubricant HEATE-201			
its reduction geer housing 12. Pri lubricant IMATES-201 into			a e de la company
ministration four housing of worm wheel of at pan lifting screw. To this end: (s) anscrew bearing cover of werti-	**************************************	- 	
d shaft which rotates sent screw; (b) remove bearing with sent and	No consistency por ligarity files	The second of th	
the libricant into housing. Re-install bearing with seat and the it with cover			
13. Check electric wiring of seat "ling sectonian for condition			
14. Check ejection seat controls for per operation, check all firing facing for striking primer caps			
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Supplement to Inspection Onide No. 22	PROCESCEAR	? Bo. 56	la 26 shorts Short 6
CANCEL VID COURSE.	THORISO ON ANTONIOS SEAT DUTYS AND CARD	IS FOR PROFES OPERATION	required - 5.00
Procedure	Technical requirements	Pault correct	tion.
Checking Piring Mochanisms AIF and TON-2500-18 for Smilking Prizes Caps			
Attach firing mechanism (ejection gmm) TCB-2500-38 to meat. Load firing mechanisms TCB-2500-38	Checking seat units abould be done with ejection seat installed on pyramid 76-9691-300		
and 215P with special cartridges which do not contaminate firing mechanisms during checking (checking procedure		enger og græde.	
ahould be done by armanent specialist). Connect controls to firing mean- nises. By slewly compressing release lever			
with protecting yoke actuate first mecha- nism 215P and then mechanism 205-2500-38. Unload firing mechanisms 205-2500-38	operates, pin of ejection seat firing		
and 215P. Eaks certain primer caps have operated. —. Place locking plungers of firing			
aschanicus to initial position			
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Septiment to Importion Guide No. 21	PROCESS CRART	30, 56	In 26 sheets	
CANCEL VALO COCKLAIR	BECHO & PRINCE SEE BIR AD CHE	ES FOR PROFITE CREATING	required - 3.00	-
Procedure	Technical requirements	Temlt correct	HC3.	
title Barross System Restraint Sichs- g.m for Proper Punctioning				
After paramints log straps of har- usystom have been passed through the of harness side straps, engage				
or with burnish to comment waist belt music sectionism. Prost from outside handle on left-		Late trigger (Late of the		3
Note from (Fig. 14), Esf.17) and fact it research. While holding talls in this position, pull out fasts				-
for as it will go. Like certain fastening cable is	To the course of locking cable			İ
xisi in pailed out position. Int. Or late ejection seats un- locking and locking of cable in performed manually his mist restraint buckles 16	makes return accepted by 25 - 30 mm			-
ith pulleys having placed saist belt entrum bandle 25 on right are rest efficie forward position				
		<u> </u>		 281

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Suplement to Impaction Suido So. 21	PROCESS CHAR	7 Ko. 56	In 26 aberts Seet 8	
CIECH IE COMPT	ट्यांक व्यवस्थात स्था जार ४० व्यव	ES FOR FRONTE OPERATION	Feguired - 3.0	
Procedure	Technical requirements	Fault correction		
Take seat and connect fastening				
able of shoulder harmess look an en				
of connecting strap of parachute her-				
Pass leg straps of parachite harness				
TOUGH BELSE PERFORENCE benefit.	1	See and the second second		
the in central lock.	. ;			
Make waist belt restreint system trate by noving its hamile on right				
Actuate shoulder hale more			· · · · · ·	
Charten, To this and learn a.	الراز المحاصية المصيدات المستوار	in the company of the		
to but Itilly faste-inc ankle as			- 75 - Bu	
lock and then lean back against seat the In this case spring of firing				
Charles along the second		~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
The same Brogider Tark and		그 남자 회사 회사를 하는		
PORT TIES.			인정 사람	
Unlock shoulder belt system by pul-		하다 이번 그릇 그릇		
handle 1? on left-cide on rest by leaning forward pull shoulder				
cable as far as it will go				
			· · · · ·	

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Supplement to Inspection
Guide So. 21

CLEUFT AED COCKPY

CERCIDO CE ENCINE ELIT USER AED CLEUS FOR PROPER CEZARITES

Procedure

Procedure

Technical requirements

Finals correction

Procedure three times,
the subcet shoulder belt system and
the connect soft connecting link of perecite barness system from shoulder lock

chile.

Pull oct weist belt system cables by
placing enist belt restraint handle on
spiritude arm rest to extreme forward
patition.

Disconnect log straps of parachete
kiness system from whist belt restraint

belies.

Check amount of extension of shouldor lock cable

The extension of shoulder lock

cable should second to 100 mm

For any cap of hole in
control of log local time
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Amplement to Inspection Onice his, 21	PROCESS CRART PG 56	In 20 siceta Shoet 10
CANONI LIC COMPTE	CHARLE OF EVENTUR SEAT UNITS AND OASIAS POR PROVER OPERATION	Han-hours required - 3.00
Procedure	Technical requirements Pault corr	rectica
Checking Picture Mechanism 2150		
for Proper Stricts		
l. load firing sechanism 2150 mis	a	
special explosive charge (to be peri-		
of by armoment specialist)		
2. But time release machanism 15-		
Bef.2), for which purposes	the second like the control of the c	
(a) disconnect cable of 15-3 med		
des fro cross shaft lever by resor-		
26 axle;		
(b) cock time release mechanism ?		•
ulling out fally time release mecha-		
des cable by seems of ring with book		فالرجه وجرمانات
scyplied with time release mechanism		8.3
(c) imset flexible pie into time		
whense mechanism Al-5 and lock it;		
(a) connect cable to later of em	🕶 [2025] 선생님은 경기도한 시간 있어요? 클릭.	
heft;		
(a) lock spring intensifier for		
pening harmons restraint locks		
5. Reserve flexible pin which wil		
suse time release mechanism to open	to I am a second a second a second a second a second a second a second a second a second a second a second a s	
nd from cross sheft that controlls		
brough rods locking plunger levers o		

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page) cases to Inspection onide So. 21	PROCREB CRAR	2 30, 56	Za 26 shorts Boot 11
CUSCHI USD COCUPIE	क्षित्रका से प्राप्त का गांध का व	nd is been derring	regated - 3.00
Procedure	Technical requirements	First ourse	tios :
sechanisma 2150; es a result,			
washeniam will courate. Check			
intensifier for proper engagement	:	1	
Talled firing mechanisms and	1	▲ 医内部皮肤	1 (4 (4 (4 (4)
tether primar cape have operated			والمستورسة
tock locking plumeer of firing			
may 2150	The second of the second of the		
ock tim release sechanism Al-3	4		
t pin with thick thread	1	1	
furn creas sheft controlling		į.	
sechanisms into initial position	1	1	
Place locking plungers to their	1		
positions		_	
the Cresco for Secretary Opening			
Section to Locks and Pool Graps			
AND THE POST OF THE PARTY OF TH	 1 1 1 1 1 1 1 1	<u>기∰ 시하다 출터 연락된</u>	
ex spring intensifier.	네 가입하다 하다 하나라.		
operating hardle on right-side		14 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
actuate waist belt restraint		。 【 100 智 \$ 100 \$2	
Lituate shoulder restreist syste	~		
Marin to fun swerzs grident m			
ism 2150, out of attachment cleap		(A)	
tay archantsa 2157, out of rods			
thing 215% accomplish class after		· · · · · · · · · · · · · · · · · · ·	
		원 하는 생선 시발이 시작됐다	The state of the
The second secon	on the first of the control of the c		and the second second

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Supplement to Impaction Onide So. 21	PROCESS CHART	Fo. 56	In 26 sheets Sheet 12
CAPTER AND COCKETS	CHECKING OR ELECTRIC STATE UNITED AND CARE	LES FOR PROPER OPERATION	Kan-kours required - 3.00
Procedure	Technical requirements	Pault correc	tion
which bend off locking plate of rots of			
firing mechanism 2150 classy.			7
Put feet into fort grips and lock			
thea.			
Fit special extension pieces on		计图号机 化磷铁矿	
fourtain of cross bear in order to turn			
campy jettiech levers.		化二氢甲基基 人类的现在分词	ry i liter
Through the use of extension pieces	ifter waist belt looks have	- Sendan Amerika Policifunt	. And the second of the
turn gradually campy jettisin levers 10	opened, levers should be free to		
matil they come in touch with learns 15	travel 10 mr more		
on cross shaft under beas; keep turning			
TOASE THEFTON BUT BUT COLUMN + + + +	1	4 ¹⁸	
attachment class of firms section of	. !		
the opened and that fact grits 22 home	The state of the s		•
opened Tirst or similarsons)y (to			
release feet), then shoulder belt	a process of the management of the second		
lock 31 and only then waist belt locks.			4. 22
Ber whole system to initial position			- 1
and cock shoulder belt lock, with have		제 당시 내가 되어서 하는	- 1 13 543
locks, and foot grip locks			
		영향 지수는 경찰 등이다.	
한 경험 등에 살았다면 하는 것이 없다.			 * 2 2 4;
	1		
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Applement to Inspection Quide No. 21	PROCESS CRART	Zo. 56 Aberts Boet 13
CHICH AND COCKETS	CHARLE OF PROPER SET OF US AND CHEEK	2 FG P20FER CYEARIUS required - 3,00
Procedure	facturical requirements	Fault occrection
•	-	Same of the Same of the
Continue Stronglant Belt Lock		
Riscompet rod competing lever of		
nes staff with lever on upper cross		
en provides with journals. For this		化乳酸化物温度剂 医蜂囊丛 美國 🔒
mose reserve lock pin used for attack	≻	
es of rod to lever 12.		- Marie The Land of the second second
Insert harmess cable (strep) 30 inc		
the of shoulder belt look and move it		
mile lock as far as it will go.		
on 31 should rotate im this case.	.	
Esting access through tole in lock		
ry, press powl tongue with screw dri		CONTRACTOR CONTRACTOR
nd bring peel lug into atrep loop, wh til currespond to LOCKED (BANCHIO) po		
ten.		
	Pull harmess strep to sale stre	If lock fails to get closed, repeat
tis position by mouns of screediver.		cooking procedure
tre planeer inside look		
Courtex Waist Relt Locks		
ex foot Grip Locks		
furn levers with rockers running ?	to	
tet gripe so as to bring stope into		
Queent with rechets		3

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Supplement to Importion Online So. 21	PROCESS CHART	20.55	In 26 shorts Short la	
CARREST AND DOCKESTER	CENTRE OF PERSONS SEED ONLY TO CHEESE AND MODERN CHARACTER		Man-bours required - 3.00	
Procedure	fechaloul requirements	Fault corre	oction.	
Firm cross shaft of boss up by its levens until right-side lever (as	7	eterija in die der de de de de de de de de de de de de de	i siyi u siyi	
viewed from aircraft rear) of vertical shaft touches with its lower slot red	. 4.		1.	
pin connecting levers of waist belt locks. In this case red running to cont- rel shaft for waist belt locks will				
travel to left and through leverage system will turn foot grip control shaft				
levers and bring them to foot grip				
Put ends of waist belt restraint cables into locks.				
Close belt restraint locks. Howe red connecting levers of weist				
belt looks to left (as viewed from air- craft rear) so that logs on look lever				
which close grips prevent waist belt look grips from coming out.				
Full waist restraint cables to make sure that they are looked.			7	
furn been cross shaft by lifting its end levers so that right-side emi of shot in lever of lower vertical shaft	placed so that their bolt heads and			
The state of the s	these on central reckers of foot grips coincide			

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Supplement to Inspection Guide-Bo. Zl ... PROCESS CRAME So. 55 In 26 cheets Doet 15 CLEOPT AND COCKPITS CHEMIC OF FACILITY SOT, MILE VID CHEMS LOS EXCHES CANNYLLS Technical requirements matter plm of rod commercing levers of mist belt locks. As a result, control recker of foot gips will be locked through system of English Operation of Contry Ripred's Persient for Their Politice L Bute sure that safety pine are intalled in hinged supports 2 for about "setting serve out of Z Turn shear rection about for cliquible supports

3, 2 move ground safety pine from

act support in turn having taken neces-Precautionary Researces
Then turning hinged supports act art pore in the soceasing procescontrol shaft be sure that mobody is present close to supports.
Supports should get opened (get turned through 90°) and locked by Time torm control shaft 5. Turn shear screw out of steps did lock grains spring pin in slot of Sport, strike stop with rods of 10-on Conter, Cleck in this namer sech opring pins . PETER

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Surplement to Inspection Quide No. 21	PROCESS CHAR:	Fo. 56	In 26 sheets Sheet 16
CAFER AND COCKETS	CERCIES OF EMERICA SILE UPINS AND CARR	ES POR PROFER OPERATION	Fequined - 3.00
Procedure	Technical requirements	Fault correct	
6. Mink spring pins and look them this stope by turning in shear server. 7. Comment dynamenter to each sup- over in turn and seasure initial ef- orts required to fold supports. Comment yearsmarker to arm of support, then do- nd so unlook support by pressing pin the rod inserted through hele on top through superts wring re- formable. 5. Fold hinged supports using re- ares procedure and install ground they pins.		Replace spring if ethan 18 bg	Yore is less
Renoval of Drocus Charte Checking It for Proper Politics			
1. Miscomment thinble of chute from sirvel of locking mayor of firing mechanism 2150 c. thrusten map hook of chute road lines cover from ing in night-mide cess of ejection seat head rest 3. Seal dropte chute container rough and holes in its plates	Checking and folding of drogss chute should be sade in accordance with relevant Instructions **Diffic.** It is forbidden to take off with drops chute containers sealed as container will fail to release drogue chute at ejection		

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Ozide Fo. 21 A CAPUPI AND COLDEN CHROTING OF THROTTON SEAT DRIVE AND CHROSE FOR PROPER OPPRISORS Technical requirements (. Palock and remove pine from tions of scenations 5. Smove plates of container from mps of locking plumper of firing mecha-in 2151 and resove drogue choice. Instal-ints of drogue choice is the reverse of Debtiz Sefery Belt Locks for Proper Steams from Derrency Samile l. Hearve roller cover and mark posi-mm of roller in alot. Mark recess which intensifier looked and unlocked. ecomodates like of cable rusning to Ver-link reel in order to place log of locking planeurs of firing moctanisms 2150 should operate. which the same recess should it become control to disconnect this cable & irrance personnel parechate with leds of shoulder and waist belt restre-3. Occupy seat, put on harmons, fifte central lock of harmons, operate Time and waist belt restraint mecha-

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Supplement to Inspection - Onice No. 21	PROTISS GRART	3056	In 26 skeets Skeet 18
CLEAR AND CONSTRU	CORNER OR EMPOTION SHAT USING AND CAN	ELES FOR PROFITE OPPERATION	Mes-hours required - 3.00
Protedure	Tochnical requirements	Fault correct	Hoe
e. Full slowly handle 25 located a front wide of seat per. Beturn whole system to initial position, for which purpose proceed as clients: (a) pass handle cable with ing through commercing pipe of reller body; (b) bring recess for cable ing in allier to outlet of cable from roller only; (c) insert ing of cable running from	After waist belt locks have open- ed handgrip abould be free to travel for at least 6 ms before disconnec- tion Eardle with oable abould remain in hand		
male into reces in roller; (d) secure cover on roller body; (e) discempet rols from release wers of fixing mechanisms 2199; (2) relate cross shaft which controls fing mechanisms 2199; having lowered act lawers;	cause turning of reller amount		
(c) home up levies of cross shaft high as free travel of vertical shaft war possitie; (h) check control lever of four-link see for proper looking	shart, while handle cable should re-		

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Supplement to Impactica

Guide No. 2a

PROCESS CRASS No. 36

CREOFF AND COCKPTS

CREOFF AND COCKPTS

CREOFF AND COCKPTS

CREOFF AND COCKPTS

CREOFF AND COCKPTS

CREOFF AND COCKPTS

Tocketeal requirements

Funds of System for
Procedure Truck Press

Perform checking in the following

Septembly Press

Perform checking in the following

Septembly Press

(a) amounts from cross shaft all
convictions which control units:
(b) recover looks from levery for
concentrate of shapelies commented with
cockpt control lever;

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Mich closes split yobs; (C) turn safety acress out of firing scharizes 25%; (c) lever canopy control levers (c) acres they will go; (f) aste sure that lock of split

(f) ashe sure that look or split the commoting upper and loose postion of firing sechanism 2150 outer. The har released yoks and the latter which upped and that shackles have the off pire of lawars; for return system to initial postum;

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Supplement to Inspection Onde No. 21	PROCESS CRARY	Bo. 56	In 26 storte Shoet 20
CLEARLY AND COCKETS	CHECKING OF REPUBLISH SEAS DRIVES AND CARDS	3 POR PROPER OPERATOR	required - 3.50
Presedure	Technical requirements	Fault care	ection .
(h) turn safety screws into lock of split yoks and install new locking plates; (i) look shackles on pins of lovers; (j) turn safety screws into firing aschmanns 2166			
Cathin Inclusive Charge of Pining Bethanies AND for Prover Operation 1. Loss firing aschanics AND with special dumy cartridge provided with priser caps 2. Commet cable to pix of firing sechanics locking planeer			
3. Full bright pix out of locking planear, which will result is operation of firing mechanism 4. Unload firing mechanism and sake sure that primer cape here been struck			
5. Cock and reinstall looking plunger of firing mechanism and recommon cable			

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In 25 stort __ Short 21 Gulde No. 21 charge of finals are red; to there is then castles \hat{x}^{*} and CANADA COMPANI Installing and Checking Condition of Special Sefety Screen Thick Lock Seperate Daits For checking use the fellowing after installation safety sore sold be turned right home. (a) check seres of split yoke lock firing medianism 2153; Locking plates (one at each mide of locs) should fit closely to plate (b) there acres of firing menh NEW (c) theck acress of beam drop of rods, and tabs of plates signid be bent on rods. lever located on cross beam with jarranle; BARCE, (4) check screw of pin fastening crainer on firing mechanism 2150; (s) theck screw of cross sheft which cutods can-py hinged supportes; (f) theck screw of firing mechalocating places of your for extendent of firing means nion 2150 should be used only once. Therefore, it is not aliered to bend tabe of lock Em 2150; ing plates twice. (g) check locking device of cross that thich opens safety harness locks; (h) there locking device of firing Then performing schodul or some other maintenance operations which require be ing of place tabs, replace plates with new ones tentains 2500 drive;
(i) their locking plate of rods with then joke of firing methanism 2150

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Suplement to Impertion Suide Es. 21	PROCESS CRAST	5 6. 95	In 26 aborts Sheet 22
CARGET AND COCKETS	CENTER OF DECIMA SEAS WITH AND CAN	LES FOR PROPES OPERATION	Ham-hours required - 5.0
Procedure	Technical requirements	Pault correct	
Casching Meeting Seet Units and Canors for Joint Operation (seet resort) 1. Open campy and miled firing sechanises HE 2500-36 and 2157 2. Install ground safety pins in firing sechanises HE 2500-36 and 2157 and in sectors of foot grip rods 3. Resorts at 4. Unload ring sechanises 2156 and 2259 25. Semore firing sechanises 708 2500-36 from aircraft special sechanises of install on aircraft special sechanises of install on aircraft special sechanise of install on aircraft special sechanise of install on aircraft special sechanise of install on aircraft special sechanise of install on aircraft special sechanise of install on aircraft special for providing starting effort of 150-200 kg 7. Furn off special abear serves from the following mits: from canopy	This kind of check should be made in the following cases: (a) then replacing seat or campy (b) after renoving or replacing armour plotts: (c) when repairing cockpit or subling any subdiffications that may affect operation of seat mechanical or prevent seat from coning out of cockpit. Removal of ejection seat from cockpit should be made only when cockpit is fully sitted with standard equipment. To avoid demaging engine control lever furing removal of ejection seat now engine control lever forms		
from grip locks, from upper bushings of canon rear grip locks,			

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Supplement to Inspection Guide So. 22	P100111 (1912	Jo. 56	In 26 shorts Sport 23
CURCEY AND COCKEYED	CHRONICA ENECTION SIAT UNITS AND CARL	er lor latered galeration	Han-hours required = 5,00
Proceduse	Technical requirements	Fault corre	etica ·
remleft sector of control shaft for jurid supports and from stope looking spring pins on supports for the cancey frost grip locks 8. Install sect on aircraft 9. Lower sect pan into currence law position 10. Close cancey and check clearance between journal and lower surface of book of cancy year grip lock. Do not preservize cockpit 11. Paur boses from ground installs the through connecting pipe for cock- jit air conditioning and connect these	e Clearence between journal and the lower surface of carpy lock hook should be at least 2 mm (greater size in not limited) Clearence between bosses of		
be such. Then one of impactors should scopp ejection seat and take hold of biracile actuating cylinder control valve. 12. Install two sunciliary bolts is takey year arch (instead of two opening solis that have been served off ad connect to then dynamoster through calls. Connect other and of dynamosta.	journals are allowed to press campy locks with up to 2 am difference		

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Suplement to Importion Suits Sc. 21	PROCESS CHAR	T 30, 56	2a eo abecta
CLEVEST AND COMPAS			Sheet 26
Proceedings	CENTRE OF PERSON RET MERE TO CT	KIS TO PROFIT OFFICE	Persons required - 3.00
	Pechnical requirements		
to book of crome and apply 180-200 kg effort preliminarily on canopy as read by dynamicator		Pault corre	tion
15. Price slowly seat matil its			
have operated			easti .
M. Continue raising seat and make sure that:	The results of the second	1 42	i i di laborazioni
(a) jin of firing mechanism 2152 has been pulled out properly; (b) as seen as surface of canopy	The pin should be pulled out of firing sections 2155 after seen travels approximately 20-50 mm		•
carrying panel level level of cancry-	canonica minimum slide along		;
open	completely after passing panel and remain unfer campy ris		
meeter CPE-2 and make sure that tighten-			
nesses in electric hoses IE-26 and			
16. Committee relating sout until			1
		talian kalendarian dari dari dari dari dari dari dari dari	

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Surgistant to Impection Guide Fo. 21	PROCESS CHART	Ec. 56	la 25 aborts Short 25
CLEOFT AND COCEPTS	CENTRE OF PRESIDE SELS MINS AND CHE	28 FOR PROFES GENERALIES	Min-hours required = 5.00
Procedure	Technical requirements	Fault corre	etica
If, lower seet and start renoving it spin from position when seet pan it is represent position. Id, Panner seet and install it upsher with cancyl on pyramid; check channer between stors in two-ara- hers of ejection seet and levers on our grip locks of cancyl. Id. Open memulily front and rear rip locks of cracyl and separate namely from ejection seat; place cancyl lock with and seet lock system to initial	After replacing canopy or east, check clearance between insert of frust lock and side of seat support. Clearance should be at least 3 mm.		
pation No. Turn safety screen into front of rear grip locks and place shear during river 55202-2-6 in front lock of time delay mechanism	here into front grip lock safety scree 55-0605-916 mde of unterial Al-1. furn into rear grip lock safety scree 55-0605-801 mds of asternal Al-1		

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Surplement to Expection Suide In. 21	PROCES CHAR	2 Ro. 56	Zo Speece St.
CARCET AND COCKETT	CHECKERS OF PROPERTY AND CHECKERS AND CHECKERS	HES FOR PEUPER OPERATION	Man-hours required - 3.
Procedure	Technical requirements	PAULT CORRE	
	Install serves on sine white (prepared on natural drying oil)		
Accessories		Tools	
levice for removing campy by orr Device for checking ejection seat Device for removing ejection seat			

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supplement to Inspection PROCESS CHART M. 57 In 2 steets Elect 1 CASCRY AND COCKPITS त्त्रकातः स्वत्रकारिकातं साह्यकाळ required - 25 Procedure " Technical requirements Fault correction), Place valve of pressure regu-num APS-57B to GFF (EMMERGES) post-2. Close concept air supply valve
2. Close concept air supply valve
3. Connect boses of ground device
4.70/90-060 to concept pipe unitoes
leated in landing goar nose strut wall
4. Connect ground air bottle to
cound device grand devices 5. Close campy and pressurise cockpit from outside. 6. Open velves of ground air bottle Cocipit pressure rise ratio should not exceed 0.1 kg/cm² during and device and watch readings of in certice and watch readings of ITL-20 instrument 7. Ruild up pressure in cockpit as an assistant of the state of the first supply to cockpit by closing valves of ground air bottle and ground device l ma. In case cockpit air leaks through AFI-578 regulator with valve in GFF (SNUMMENO) position, plug outlet pipe of regulator AFI-578. If air leakage exceeds 10 kg/hr, it is necessary to wace place of leak- leasure time during which cock-pit pressure drops from 250 to 210 m Hg. refers this operation 2 or 3 times For calculating cockpit press drop time refer to Chart Ho.1 77-224-76-1. Cockpit is considered tight if air leakage is not over 10 kg/hr

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Supplement to Inspection	PROCESS CEART	No. 57 East 2
CARTEST AND COCKPTS	CESCULE COCKETT FOR 91	Ear-tou
Procedure	Technical requirements	Fault correction
9. Depressurise cochrit and open canony by operating outside arm 10. Set valve of regularm 12-578 to G (ELICES) position and lock with wir NE-0.08		age surelly (by hissing sound) or of the help of scapy water. Fairleads of rods and cables at be checked first
11. Disconnect hose of ground device from cockpit pipe unions, plac and seal- pipe unions		
Accessories		Tools
Derice for measuring securit of cocinit fround bottle with compressed six	pressurfaction French for coc	kpit pressurisation system pipe union

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Suit)esent to Inspection Suide Bo.21	PROCESSORA	P. T. Bo. 58	In 3 shorts
CAROFT AND COCKPIE -	PHENO AND COLUMN PROPERTY OF THE PROPERTY OF T	TPOLICES, CLEUFING	Sko-hours required = 0,30
Procedure	Technical requirements	Peelt our	<u> </u>
l. Serve off cover and remove filter of pressure controller ALS, flow filter with soft hair bresh and shot filtering element for condition	ing element.		
	Tors paper inside corrections and is ever ribe, deep darts in paper, expansive of individual sorregations is sneese of a ms and shrinking of other corrugations, twisting and sharp bends of cor-	If filtering elements above indicated de	
2. Princiall ocver 3. Connect hose of 4 lit. bettle criticd with pressure gauge (instead if pressure soit) to hose of MIL-1 mil-6 mit (on upper block of CFT-12 mans sonnector) 4. Couse sockpit air supply slive	· And the state of		
Eit: Testing is allowed with cockpit air supply valve open. Sut in this case critis should be pres- surised			

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Supplement to Depoction 201de 30.21	7200233 0	EART BO. 58	In 3 steems
CARCET AND COCKETS	PRIVING PILITS OF ALS PRISORS FILLIES AND CREATING P		Ren-hours required - 0.30
Procedure	Technical requirements	Pault corr	ection
5. Install special device with weight on head of IX-5 pressure controller 6. Start engine and accelerate it to 65 5 normal rating 7. Using device create required effort on betton of pressure controller AX-5 and read pressure value of:	Outrot pressure should be as follow. Effort, P. on her, Output pressure	not be obtained by add	usting presente
pressure controller AI-5	ton of AI-5 produced by AI-5 controller, gr controller, ur 2 kg/cm ²		ce the latter
	351 17-33 #7 to 0,04 1,053 165-225 #9 to 0,2 1,755 325-365 #9 to 0,46 2,457 450-475 #9 to 0,66	3	
8. After adjusting or replacing pressure controller AI-5 obeck system	There should be no air leaks through connections of pressure controller AI-5	In case of leakage connection or replace	
D4			• .

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		5 7	# -			
eent to Inspection Daile Bo.21		e e e e e e e e e e e e e e e e e e e	PROCESSOE	A 2 7 20.58	In 3 shorts Short 3	
FOR THE COURSE		PROVINC PRICE	rites vid centile di 3 ct vit-9 - Minime	CCTTPOLIZE, CLEARING	Nan-bours required - 0,30	
Procedure "	,	fechale	al requirements	ysult co	rrection .	
os with the help of on	A 97					

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Buttle (4-lit. capacity) with pressure gauge Special device with weight Bresh

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Ouife To. 21	PROCESSORARE	le ₂ - 58	In 1 short Short 1
TYTOO CEA TYDELD	CONTROL OF THE PARTY OF THE PAR		required = 0.50
Procedure	. Technical requirements	Fault serrent	ion
 Vach with olem gasoline joint between onlie and EP-7 valve control lewer on sirrcast control stile? Check condition and attachment of flarible caning and control cable of EP-7 valve for wear and hourse. To find 	Control cable of IU-7 valve should be free from any year and	Replace cable if i	t has broken
berrs, hand-feel cable over its entire length. Then exacting balls pay particular strantion to its charp bends, to places where cable protrades from the places where cable protrades from the places of the protrades from	cable.		jante aj 1 jantiika ja
3. Check III-? and III-8 valves, bell crack and their central rod for remarks and their central rod for remarks in the congressed air a. Labricate III-? valve control cells with oil III-8 (transforaer sil); labricate cells-to-control lever joint,	III-6 valves should be securely attached		
ecumentions between cable and bell grank and EF-8 valve ocutrol rod Accersories			
ACC-ESCRES CE			

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Technical requirements	Fault corre	Sep-hours required - 0.25 rtion
ry running of rator leater	ates I fan of tw	bo-cooler rotates
ry running of rator indice	ates If fan of tur	bo-cooler rotates
rbo-cooler is sound	with difficulty or all, replace turbo	fails to rotate at -cooler
용명이 바를 위해요		
	Tools	
	Soreodriver Pliers Brench, 14 x 16	
		Pliers

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					50X1-HL	JM :
· · · · · · · · · · · · · · · · · · ·	Gride 20-27	710C183 CB	12: E. 61	In a shape Seed I		
	A IN IS-RIPE EVENTES	STOREM AND INCLUSION OF ALE	entra estribui	Man-bourg Selved = 0.30	چ	•
	Procedure	Tochnical requirements	Pault correction		- () - () () () () () () () () () () () () ()	
	L block note of strainer pipe cim intrainer in installed in imigs well for right-saids wheel of	in services in a				
	mining sear stret) L belief strainer body turn off com note, release strainer attachment				4	
	in and reserve the strainer. Plus	e e e e e e e e e e e e e e e e e e e		الاستقاد في الله الله الله والمستركب الاستقاد في الله الله الله الله الله الله الله الل	Maga sa sa kabupatén sa Kaba ba Sa Baga Sa Baga	
	12 Emercially attracted 1, Heart the filtering element of				•	
	raise (maters) in clear gasoline of its with coapressed air 5, tash all metal parts of strainer	Remove corrector out parts	made by cleaning parts eloth 20.189-220	Alft Strains		
	a furlise and blow them with compres- eitr f. Impact parts of strainer	Thes mounting strainer see the arrows are directed slong sirflow	net Restore stripped	am perlace		
	7. issemble and reinstall filter		individual parts of strainer	rainer or emote		~,
	Accesscries		.ceja			
	Accession	plien	nes, 11 x 17; 9 x 11; 32 x 3	309	/-	
		The state of the s				
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SEASO .	Denny 1899, ily sy man and province and reach sec.					300
TUUUSI	40 800			in the second and the second second second second second second second second second second second second second	in and has to make by find and an extending the Arian specific of the Arian as	e engilisti starting object solven

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Septement to Expection Gelds Do. N.	S secesse	E 2 1 T Bo. 62	In 3 sheets Sheet 1	
AD AND EN-TOING SECTIONS	CERCIDO AIR SISTEM SCITIOS FOR SECURE ATTACREEST AND BOTH SISTEMS FOR FIGHTHESS		Fed-hours	
Procedure	Technical requirements	Pault correction		
1. Bake external inspection of air botiles; make sure that they have proper paint coating 2. Inspect attachment fittings of air botiles 3. Charge main and energency air systems with air (Fig.143)	tightness observe the following sequence: A Check section of air system between main air bottles and communing units			
A. Check main and marrgancy air mystems for tightness	re this end: (s) charge main air system with air to obtain pressure of 110 - 130 kg/cm ² ; (b) close all valves; (c) wait for 2 kears;			
	(6) Air leakage from system should not exceed 5 kg/cs². Checking should be made through the nee of pressure gauge 22-150 of main air system. 3. Check landing gear exergency air system 7. this end: (a) charge system (landing gear exergency air bottles) to a pressure of 10-10 kg/cs²;			
i i	(b) plose valves for energency discharging and charging of air system;			

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Sepplement to Inspection Cuids Fo. Il	PROCESS CEAR-E 30- 62		Short 3
AIR AND IN-ICINC SISSES	CERCIES AND SISTER NOTICES FOR SPORES	ATTACHMENT AND BOTH	Man.coms required - 1.0
Ale all In-Itin Sisters	5131123 742 1144.	1 .	<u> </u>
Procedure	Secunical requirements	Pault corre	egine .
	(e) air pressure drop is sec- tion between energency air bottles and valves is not allowed in the source of two hours. This check should be performed with pressure gauge 28-150 of energency air system		
Accessories		fools	
Ground air bottle		French Screwdriver Pliers	

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.... rant to Inspection 220 C123 CZ422 To. 6) \$2140 Bo. 21 COURSE IN-10180 MAIN AS REVAIRS STOOMS DESCRIS ATE AND DE-ICING SYSTEMS required -Postnicel requirements i, mest de-toing system for theck system for tightness with kg/cm² operating air pressure. So air leaks through pipaline consertions are allowed. miners. To this end, disconnect with with con-return valve from rm (fig.144); plug disconnected and friplins; fill system with air by resig lever of valve 32-48 2. Inspect manifold and elega its the with soft ware 0.5 ms in disseter A face sear in cookylt and switch with Hill Carryl De-Hill SHI-CHY THE (COLF.-CH. HYCTMECCHIERTH. SCHAPE THAN EAR) circuit breaker are are preliminarily that ground are sare preliminarily that ground are same in convected to aircraft). In that it trainer is located on chand side upper control 200 h free CAROFT DE-ICEA (RPCTAROOM, FLEE better on left side of instrurent the mark sloothol epraying from Still and thom quinchly release betten to depletish alcohol tank with If ownering is non-uniform or miformly and continuously.

Desicing system tank should be filled only with rectified alcohol mtermittent, clean holes in manifold sure and repeat spray checking (2.3 32%) with through filler mook located - The comportment

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM CERES CHART, No. 63 DESCRIPT IN-ICOM SYSTEM FOR STRATIST ALCOHOL TERCTICE required - 0.20 SECRET/NO FOREIGN DISSEM

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Supplement to Imspection p.14e Bo.23 7100188 CHART Bo. 68 No ne hours EMPTAL, INTERCTION AND PASSEING OF OIL UNITS FILTER POWER PLANT Technical requirements 1. Lift up access panel at fuselage farbane side marked "ENGINE AND ENGINE SISTEM ACCESSIONERS" (AFFICANI LITATUR S PROPOCECTION) 2. Renove strap from breather connections; resove connections (Fig. 145)

3. pale external inspection of all filter cover and housing for defects Replace consections, if cracks or Strap and connections should be free of cracks and deformation out filter cover handle bur should be looked with 1 mm dis. safety feld up cracks developed on strap Wipe contaminated surfaces with maste cloth socked in gasoline wire. Surfaces of oil filter cover and oil unit housing should be clean Bandle bar is not to bind, when 4. Unlook and turn off mut with handle bar by turning it counter-clock-5. Remove filter Immediately stop filter with rather plug 631-131 6. Fit plug E37-517 into oil unit besing instead of oil filter cover Replace rubber scaling ring, 1f Rubber sealing ring should be 7. Peaces rubber scaling ring from Poblar staling ring should be elastic and free of bites, contrac-tion, swelling or deformation piltering mit should be clean; no metal chips or any other foreign matter is allored or game discs defective (part 0253031) In case metal chips are detected on filtering unit consult representative of fundacturing plant or repair organiza-tion as to further use of filter tion b. Impect filtering unit

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Supplement to Inspections Suide No.21	PROCESSER	ART D. Se	In 3 sheets Sheet 2
700 PART	ERSONAL, INSPECTICE AND PASSED CO	POIL UNIT PILIER	Men-hours
Procedure	?schmical requirements	Pault corre	tion
9. Bash filtering unit surface in goodles bath	Dange to filtering unit game is not allowed	Replace filtering damage is detected on	unit, if any
10. Day filtering unit 11. Daspect filtering unit 12. Benove place from oil unit bousing (E37-317) and from filter	Do not blow filtering unit with compressed air. Then drying filtering unit, take care to see that no dust, dirt, or any other foreign matter gets on filtering unit surface Filtering unit surface		
housing (231-311). 13. Insert filter into oil unit housing after fitting rubber sealing ring into cover groove 18. Serve up mut with handle bar by turning it clockwise. See that rubber sealing ring is installed properly 15. Each external inspection of oil filter cover and housing 16. Lock oil filter cover handle har with 1 am dia. safety wire	Biting of rubber swiling ring or its projection from motor filter cover flarge is not allowed Surfaces of oil filter cover and homing should be clean tire should prevent cil filter cover handle bar from morking loome	H ring biting or detected, remove correr ther scaling ring for connected ring, if m Clean contaminated clean waste cloth scaled	and inspect rub- odition rectary surfaces with

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puse Bo.21		· · · · · · · · · · · · · · · · · · ·	m. u 📜	In 3 abouts Short 3
POTER PLANT.	REBUILD DESIGN	ICE AND VASSING OF C	 Il use filte	Hen-hours Fequired - 1.00
75 no e Custe	Technical re	quirenests	Penlt co	rrection
17. herall cornections and				
18. Check oil unit for tightness	Bo leakage is a		Peplace sonl, detected	if leakage is
19. Those access panel "INCINE IN HIPACTE SYSTEM ACCESSIBILIS and			TELE	
Peter attra actions				
FIG. 145 ENGINE 198	FATHER COMMESTIONS F	AL TE		·2
I'm Breamen connect an arrang a	Donar, 3 - prote constrat	A T		n newsennum in der sich
AccessTiss	T		-cols	Anglio No
Container for small-size parts but for gasoline large terms Chi-139		Screetri Tranches Pliers C	5227-07-9E11, 2 p1	e C23
Clean gazuline 5-70 Fin ing wire, clas, 1-252 State Clean waste cloth Fig 1437-317; C31-33	Standard 1007 1066-50			

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Supplement to Inspection Cuide Bo.21	PROCESS CH	A 1 T Po. 65	In 2 cheets Sheet 1	
POUR PLANT	DESPECTION OF BRIDE	CONTROLS	required - 0.X	
Procedure	Technical requirements	Pault correct	ult correction	
1. Lift up access panel compous, Excise accessomes (Meanleine, Alterna accessomes (Meanleine, panel etherula units (Nationalpetati)	<u> </u>			
2. Wesh links and inspect them for	Use gasoline for washing. Links			
condition, including attachment points	and their attachment points abould		Maria de la Servici	
	be free of chafing, cracks, deforme- tion, contacts with other components, or other defects.			
	Exts of coupling bolts, pump levers, and HFFT control panel should be properly locked	Eliminate defects devices are damaged, re	If looking	
3. Shift engine control lever throughout entire range from CON-CFF (CTM) stop to FULL INCEPTED (ULTRIS	Engine should be easily con- trolled. So binding is allowed throughout engine control lever	patent cause of bi		
*CPCLIO stop, to see that control lever scoves smoothly and that there is no	travel		şarılığı İsti	
play, where links and engine control bell cranks are commerced		respective/more enclosed, a		
4. Cost link and bell crank joints				
with WITTH-221 Indricent	thin layer			

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5:7;lesest to Inspection Guide 20.21	7200211 03	2 2 30. 65	Zn 2 shorts Shart 2
POWE PLAN	initation of the		Man-hours required = 0.30
7res el see	fuchaisal requirements	Pault correct	
Accessories		Tools	
Bath for quadling fruch for waiting Clean gaseline B-70:IMITEM-22 Binding etre, 0.8-E22, State For 100-50 Center pine 1948;1-1,215 Clean maste cloth Interpretable page 1948;1-1,215 Historial Page 1948;1-1,215 Historial-700-75 Lens Id-700-75	T lebelcant	creedriver liters C31-226	

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Supplement to Imposition	Enciss CP1	B.T. 30. 66	In 4 sheets Sheet 1
1	CHECKING ENDINE CONTROL LYNE FOR PEOPLE PROTECTION CONTROL LEVER ROSITIONS OF MR-213 EFFICIATION FIRST LEVE	TER AGESEKERT WITH	Fan-hours
Procedure	Tochnical requirements	Pault correct:	log
1. Check to see that positions of engine control lever in cocipit at main ratings (Fig.146) agree with positions of EF-210 regulating fuel pusp and EFF-10 control panel levers on engines			
(Fig. 187), for which purposed (a) set engine control lever at cor-cry (CTE) stop;	Engine control lever should be locked in this position. Clearance between CUI-CPF stop and engine control lever should ascent to 1-5-2 m. Ing of regulating fuel pump smould tightly fit to pump CUI-	-	
(b) set engine control lever at IMLIGO LATICO (ELDAZ PLE) stop;	077 adjusting screw stop. Zero motch on ETFT-10 control panel dial should line up with motch on control panel body Notch on lug of ET-210 regulat-	Adjust ergine com	<u></u>
America (Marce 125) Stop;	ing feel war should be between notches lisiting IDLIN BATHE sector on purp disl (first and third notches as from UT-UT+ stop). Pleures 11-15° on UTF-46 control pant disl should coincide	locking elements and st	
V.	with motch on panel body		

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esent to Inspection PROCESS CRIET 20. 66 Calde \$0.21 CERTIFE BUILD ONLY, LAID FOR PARTY PORTY IN THE CONST. Sub-bons FRENCHES OF PARTY BUILD AND LAY-UP. POWER PLANT Procedure Technical requirements Pault correction Stort esgine control lever in ingine control lever should be locked in this position, 25sl of EP-216 regulating fuel pump should m: (EMELD rating position; ert at fifth actab at fifth motal. Notch provided on lug of EP-219 (f) set engine control lever at THE (MICHAEL) BEODS regulating feel pusp should set behind sixth motch on post fish.

Sigures 67-68 on EFFT-48 neutrol
panel dish should line up with motch - + - Lailun provided on panel body Ther pulled back, engine control (e) set excine control lever in чети ответно (виниматила ворски) lever should come up against HINTATY AUGUSTIC stop, if retainer is released. potch on lug of EF-219 regulating fuel year should set behind se-worth metch on pump dial. Figures 72-73 on EFF-10 control Figures 72-73 on EFF_46 control provided on panel boty Engine control lever should be looked to this position. Clearance between FULL MONEMED STOP and engine control lever should be equal to 1.5-2 ass (7) set engine control lever at COLUMN (DOTARS CACTE) stob

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Supplement to Inspection	CHICAGO PROTECTION		Is 4 shoots Shoot 4
MAIN SIVES	CHRISTIC EMITTE COMPOSITE PART NO PROTEST AND PROTEST	POPULATION AT ALL STOPS;	Ean-hours
Procedure	Technical requirements	Pault cor	rectica
	Pitch on IP-216 regulating feel peep ing shorld set behind severth moth on pusp dial. Clearance between IP-216 pape ing and AUGUSTA-TION (62742) justing serve stop should be at least 2 ms. INTE-18 control panel fever should sightly fit to FULL AUGUSTED stop, whereas figure 112 on INTE-18 control panel dial sust line up with notch provided on panel body		
Acoesecries		Tools .	V 2
Imprection lump Mirror CF-7804-55			1

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				OX1-110W
_	Transition Transition	Zacessa cais	2 30. 67	In 3 shorts Short 1
1	puide Bo-21	CECKIE OFFICE OF JET MODILE FLAFS O	CONTROL SYSTEM	Fan-bours - 2
-	Procedure Page 1	Technical requirements	Pault sorrect	los
+	l. Compect ground power supply	Voltage in sireraft mains should not be below 25,2 T		e ja ja Ser
	2. Turn on following switches and circuit breakers: MASTE STRCE (FLANDEZ BENITATION) APPEAREMENT (MOPCHE), PROCESSIES (MOSTERATES) (this		90000	
	switch should be set in F position) 3. Switch off afterburner blooking system F60 by turning screw E on afterburner control unit E40-134			
	in Blockies (FF (EDGNIFCHA) FORTION (FIG.148) A. connect ground hydraulic unit (at furshage starboard side)	Pressure in hydraulic system should be within ZID_IC kg/cm ²	FIG. 165 AFTERBURNER CONT (Arous shows screen "If" which or system when the site in directed we system can when the site in orth	rically and disampages (re-
		gote. Daring hydraulic system operation, take care to see that there is no leak- age in hydraulic cylinders and in hydraulic system piping jointo.		
-	5. Nove engine control lever from MINISTR to FULL AUGUSTED step and chec time within which flaps which from MAXISTR to FULL AUGUSTED position	AUGESTED Position. Hove engine control lever at a rate of 1.5 to	If flaps shifting agree with specified adjustment of synchromanipulating respect (rig.149)	value, perform inizing valves by
		2 sec. theck flaps shifting by observing control ring	14-6-1-27	*

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Explesent to Inspection Guide Sou21 In 3 sheets CPRINTED OFFICE OF IZT FIRST FLATS CONTROL SISTEM POPER PLANT required - 2 fechnical requirements Pault correction f. your angine control lever from Flape should shift from BALINIX Increase is capacity of synchronic ing valve flow restrictor I will cause FILL AUGUSTED STOP to HAXING Stop and to FULL ADMINITED position within 5.5 = 1.5 sec. that time required for flaps to shift reduction of time required for rods to shift to MILIUZ position, and vice imea respective positions To determine flaps shifting tim operate shutters at least three times Increase in capacity of synchronic ing valve flow restrictor II will reduc-tive required for rods to shirt to AMERICA position, and vice versa. Baying finally adjusted rod shirting time, select suriliary valve flow restrictor III in accordance with graph (Fig. 150). If secessary, adjust setuating rod Check all three actuating rods ir recessary, solars actuating to travel by sampolating series of appelirating valves springs, after loosening coupling mass turning series in will increase rate of rod soresent for synchronous travel. Check is can ried out as follows: with actuating rods moving to MITING position, measure distance between chanks of two other rods and hydraulic cylinde stops, as soon as one of the rods for opening flags. Turning screw 3-in will increase rate of rod travel for closing flaps comes up against stop. Distance seasured should not exceed ? as ?. Set screw Z on E19-532 after-The control unit in LOCKING ON

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Surplement to Imprection	73 CISS CH.35	30. 67 In 3 sheet 3
Ren Plan	CERCIE OFFICIA OF AN ELLE FL	IFS CONTROL SISTER - required -
Pronadure	Sechnical requirements	Pault correction
(SIGNIPORA MINIMA) position 8. Turn off following switches and circuit breakers: MASTE SINCE, AFTERMENTS as to writch PROCESSES in initial position 9. Inscriment ground power supply source from aircraft mains 10. Macroment ground bytraulic unit 11. Fipe areas stained with AFT-10 cil	Cil stains should be removed with cloth scaled in gasoline B-70 Fig. 150 DRAPH FOR SELECTING CAPACITY OF RESTRECTOR VALVE FLOW RESTRECTOR	\$00 \$0.500 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00
Accessories		
fround power supply source frag Gasoline B-70 Clear cloth Flow restrictors Secund hydrallic unit	\$cr	-driver

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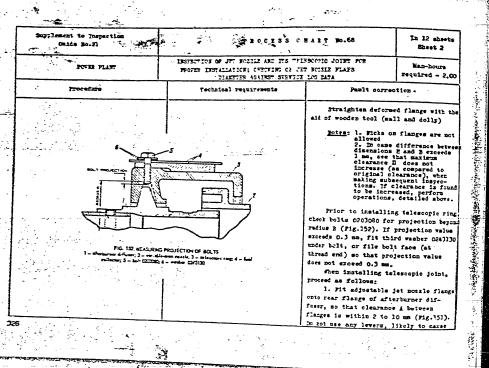
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Supplement to Immpaction Guide Bo.21 PROPERTY OF THE PERMIT OF THE SCHOOL FOR PER-PERMIT PARTY CENTER OF THE SCHOOL FOR PER-PERMITER AND THE STREET HOW THE POTER PLANT Procedure fectuical requirements Pault correction deformation of show components. Performance to four points along circumference. Fifference in clearances must not exceed 1 mm 2. Fit telescopic ring is place 3. See that telescopic ring is installed properly by isspecting it installed properly by inspecting it thoroughly one strengtermee.

A. Pit in bolts securing telescopic ring joint; install gasket without shield and tighten up muts. Check clear-zine (see Fig. 151) between ring face and pasket, which should amount to 0.8 ms (at each side). If clearance exceeds 0.8 ms, replace telescopic ring by here rese. ope. 5. Remove telescopic ring complise bolts and reinstall them along with shield; tighten up bolts and lock them 2. Bring counting trolley under Adjustable jet mossile and secure mossile a trolley ELTOW (front) grows of telepospic ring should accommodate diffuser rear flance, whereas wide 3. Eake external inspection of t-lescopic ring to see that it is is-

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Supplement to Imspection of Guide No. 21	PROCESSOR		In 12 sheets Sheet &
POWE PLANT	DESCRIPTION OF THE RELEASE AND THE PERSON OF STREET	er pointe flars	required - 2.00
Procedure	Technical requirements	Feelt corre	ction
A. Check free travel of adjustable jet nousle in telescopic joint Carry out ebeck on jointed	(rear) grooms must receive adjust- able jet nonzle flange Free travel along clearance B [726-173] should not be less than 6 sam		
sireraft 5. ifter jointing aircraft reserve size [inside afterburner, in eight points (Fig.153), with tail pipe in extreme rear position	pifference in size I measured to two diametrically opposite points should not exceed 5 ms; in horizon- tal plane size I in 3rd point should exmed that in 7th point by 2 to 5 ms	differ by more than 5 2 mm, adjust afterburn the mid of rollers. Af	me or less than er position with ter adjustment,
6. Befor to Service Log to set proper jet morals flag disaster values	Baximus size I should amount to about 22 sm	between engine and air in tail core jointing be within values indio measure size I once up If size I exceeds telescopic point clamp stallation	plane, which sho sted is Fig.15&; air 22 mm, check
proper jet modife risp dissector values at the following ratings: (a) full supported; (b) minimum augmented; (c) maximum rating			

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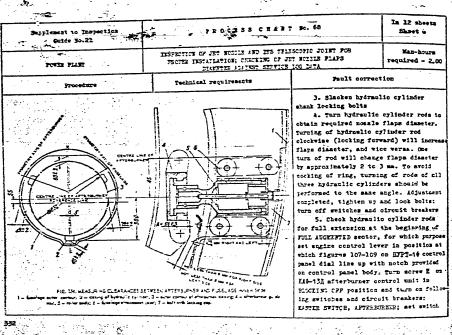
Ter Jeseni to I	nspession .			* *
aulde No.		7200253	A111 10.68	Aç 12 steets Spect 5
Her FL	an .	PROVER DETAILSTIFF AGAINT	C CB 700 Property and	Non hours required - 2.0
Proce	dure	Pochelcal requirements	Pacit correc	tics
7. The depice No.6360/44 (contain- ple art for 20 aircraft), to determine with dispeter value of jet mosale This and compage obtained results with partice log data			from that indicated t	just jet mossle milied value;
- .			22 mm. Adjustment Tot meter should be start AUGUSTED rating size flaps disseter at FCI will entail changing at FIRITE AUGUSTED	ted from FULL to changing of LL ACCESSED Total of flaps diamete
			Advantage of Jet Manager at FTIL ANY Manager at FTIL ANY FOIL AUGUSTED stop; evitabes and circuit FTICE, APPLIEMENTS; SING in I position.: ing spates BOO by tu IM-412 afterburser BLOKING OFF position 2. Believe press system	nutral lever et turn en followin brenkers: £57E set switch POOL Switch off blook- rning serev E on control unit in

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POTER PLAY

POTER PLAY

DESCRIPTION OF STE MANUE AND ITS TRINGERS JOINT FOR PROPER

INSTALLATION OF STE MANUE AND ITS TRINGERS JOINT FOR PROPER

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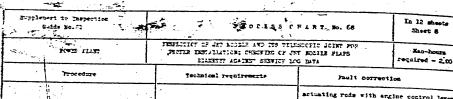
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actuating rods with engine control lever set in specified position. Turn off switch ZMERGERCY EMGAGNERY OF TRO-POSI-TION JET MOZZELE.

After checking and adjusting full extension of actuating rode, turn sores to counter-clockwise through 3 to 4° and check to see that netuating rocs remain stationary while engine control lever is noved within FULL ACCREPANT

Addustment of Pleas Distater at Minister Augusting Pation

at MARKEM AUMENTED Esting

1. Set switch BY in K position, ter
scree I on E40-13% afterburner control
unit in BLOCING OFF position, and ter
on following switches and circuit
breakers: KASTER PRINCE, PFINENESS.
Set engine control lever at RINING
ALWESTED stop

2. Adjust flaps disaster to
required value by turning adjustment
scree of transmitter AP-3A (Fig. 155).
Turning of screw clockwise will cause
increase in let morale flaps disaster

increase in jet nozzle flaps diame.er

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Supplement to Inspection Omide Bo.72	230C338 CBA	71 50. 60	In 12 speets Sheet 9
POPES PLAIT	Deliming in his house the united the life in his life	JET HOSETH PTARS	Exa-hours required - 2,00
Procedure	Technical requirements	Pault correction	•
		Mè, he sure t cylinder rods slon, as deta (see pags 332	I displacement of of exceed 2 as to trial discussions i licated in Certif. Management of adjust acing sores adjustment of performed in carried in carried in carried in present plus diameter puring shutter the aid or scree ocheck hydraulite for full extending the point of the property o

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Supplement to Impection Supplement to Impection So. 21	PROCESSOR		In 12 sheets Sheet 10
POWER FLANT	DISPECTICE OF SET SCILLS AND ITS : PROFEE INCOLLATION; CHECKING (DIAMETER AGAINST STOVE	F JET ECIZLE PLAPS	Man-hours required = 2.00
Procedure	Technical requirements	Pault correc	
		AUCKEPTED TAX. of screw incon transmitter IR Adjustment of Adjustment of Adjustment of Adjustment of Adjustment of Insecter at YAIP 1. Set engine cont KAIRUW stop. Turn on E 2. Eanipulate coli: obtain required dissector, furning of mut clo reduce flaps dissector, s dissecter by 2 to 3 cs. 3 of ring, turn muts of al oflinders through the san Adjustment complete ground hydraclic unit an source from airuraft san; HASTED SWITCH, AFTZEBURK in initial position, set afterburner control unit in EDOCKING OF POSITION, device for measuring flap (No.6500/Aa)	Many Tr Pating Trol lever at ASTRE STITCH AS

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM sificatest to Inspection quide So.21 DESIGN SERVICE CONTROL OF THE SERVICE FOR THE PARTY OF THE PROPERTY OF THE PARTY OF POSTE PLANT Proceture fectainal requirements Do the case with engines furnished with non-adjustable jet numrles, adjust flaps dissoier as follows:

(a) BY AVECUTED Teting - in accordance with Points 2, 3, 4 of Section I: (a) at Attacasta carrier (a) (b) at EATRE rating - in accordance with Points 2, 3, 4 of Section I;

(b) at EATRE rating - in accordance with Section III

Baving completed adjustment of fisps disactor, fit in pressure games for checking 75 and 74; run engine at EATRE rating and check instrument indications; pressure 72 by sore than 0.02 kg/cs², whereas enhant gas temper turn must not exceed temperature value obtained at the beginning of engine operation by sore than 20°C. Should pressure 72 by in excess of specified value, residues flaps disactor *** SECRET/NO FOREIGN DISSEM

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NAZE FINE	INSPECTION OF FROTER INSTA	JET MIDLE AND DIS T LLATION ON TAINS OF DISP AGAINST SERVICE	THE ESCOPIC JOINT POR P JET ESCOPIC PLATS E LOG MATA.	Wan-hours required - 2,00	
Frontes	1		Pault correction		
Accessories		4. · · · · · · · · · · · · · · · · · · ·	Tools		
Device for measuring f (%o.65)60/44, contained craft) Washer 0243130 Frestre gauge with 61 of 0.00 kg/mg Curpressed air cylinde kyfrasile mait	vision en lue		vecler gange set E4-19/1 bil bil bilip ile lide gange		

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cuide No.25	7100115	1129 50. 69	2 statts Rest 1
POSES PLANT	INSTICTION OF THESE ATT.	(Chicket interes	ten-sours stred - 0.25
	Procedure Technical requirements		
1. Lift up morer parels INCIP CAMPINE (NUMBERS ENTATED), NUMBER CHARLES AND SUPERIOR CHIES. BUTH AND SUPERIOR OF INSUlar THATES AND SUPERIOR STREAMS THE CONTROL OF THE CONTROL THATE AND POLITICAL STREAMS IN PROPER OF THE CONTROL THAT SUPERIOR OF THE CONTROL THAT SUPERIOR OF THE CONTROL THAT SUPERIOR OF THE CONTROL THE CONTROL OF THE CONTROL OF THE CONTROL THE CONTROL OF THE CONTROL OF THE CONTROL THE CONTROL OF THE CONTROL THE CONTROL OF THE CONTROL OF THE CONTROL THE CONTROL OF THE CONTROL OF THE CONTROL THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF TH	littachest brackets and bolt heads must be free of cracks or any other defects So cracks, dents, or any other defects are alliered on links. Bolt mus must be located. Does wrench to check nuts for proper lightening Check marks applied with red paint to locking mut, tip, and link must be strictly aligned	If cracks are detected or on bolt head, replace respects Replace link; when protate care to see that length installed link is equal to link replaced. Sighten link locking marks with red paint to lin mut, and link tip (opposite other)	spective ceeding so, t of newly length of mis and sppli k, locking

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50X1-HUM

Supplement to Inspection guide Bu.21		ROCES CE	ART 20.69	In 2 sheets Sheet 2
FOR PAR	r	ESPECTION OF REGIS	G LTILCERGET UPITS	Man-hours required = 0.2
Procedure	Technical r	equirements	Pault correc	120m
				•
iccessorios			Tools	
Faint brush Ritro-masel, red Intricant, PAITS-20 Clear wate cloth Dreyetton hasp Rirrer C2-7836-55 Lens, IA		Screen Screen	driver (for cross slits) driver	

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50X1-HUM

faplement to inspection duide 80.21 720c235 C3127 30. 70. In 17 Steets POSES PLANT BEALDON: OF EIDE Teconical requirements 4. Indea Gireanilles frier to dissentling engine, perform mornal processing of engine in accord-ate with recommended procedure harve engine in the following 1. Clase fuel abot-off valve 2. Resore tall cons distable jet mosale, for which purposes rating under presure, mas sure than (a) detach hydronic pipelines from its no presure in some premise control unit; detech feed-back Name through off papeline mate transitter plug connector;
(b) mlock and renove six pins hold
ig lines 3 to adjuntable jet mossie make use of another wrench, to svoid deforming pipelines and lessening mine (Pig.156); (0) remove links 3 from lage and tamule hydraulic control unit (three content syrraum control mas tuned culture complete with cooling shroads, under central ring 10, and load carry-life 4 cuspicts with six lints 5) 4. Has being tuneling tell section in fundame with Process Chart So. 58. 5. bring trolley under signstable it must M marele **34**I

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LARISITO Rees

Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM 50X1-HUM In 17 sheets Sheet 2 Supplement to Importing white Fo.21 \Box SECRET/NO FOREIGN DISSEM

LARISIA DASS

Fernlement to Inspection Guide No.21 RVII PLAT In 17 sheets HATTERN IN BEING Precedure e, heave telescopic ring and detach of mile from afterburner diffuser, the fit messle in two layers of parafric art and bind with twins 7. Jit lifting device belts under message fet morale, bring it me and Pechnical requirements regulared - 48. After remains atjustable for Pault correction after reaving adjustable jet costel, install tyrreally curred uni on jet totale prior to this process external surfaces of flaps and T. FIT ALTERNA OFFICE OFFICE SINCE hydraulic control mis per into shipping case after preparing mediant fittings 8. Secure adjustable jet nozzle Secure adjustable jet mozele to opports in two planes: (a) first atternant zone is ented by from flance of activitible presented by from flance of activitable jet morele, shose coller engages helf-ring of case support and is secured by detachable half-ring with the aid of two history half-ring with the aid. two hinged bolts: (b) second some comprises slides (c) second some comprises slides (b) second some comprises slides told afterturner on two flattaped pine of case support Care is held to betton by four To Maconnect all sireraft pipolines

Prior to disconnecting pipeline

operating under preasure, sake sure here is no pressure in system

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the state of the s

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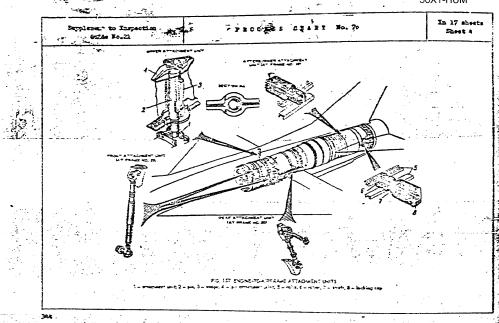
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have free engine, as instructed in

Andres list (appearing 1)

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			**************************************	La 17 starts Short 5
Socia SCREE		BRIGHT OF BUILD		Man-cours required - 48,00
Procedure	Pechalcal	to the Landers	Fault correct	ion .
il. Bring trolley under engine IL Disconnect engine attachment IM Disconnect engine attachment IM Disconnect engine attachment IM Disconnect engine attachment IM I	of pipelines and it pipelines and it pipelines and it pipelines and it pipelines are also and it pipelines are also and and and and and and and and and and	to private according lessening of		
(e) miles and disconnect from at- turns that on frame No.28 tee links away the and use link at starboard wing for miditional attachment of time; disconnect links located on the lo.28				

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....least to laspection

J. fore away engine

Market and about the featured to the large t

thrine rollers leave sircreft tracisco entre cetta

to see that foel-cooled oil cooler

below)

parses by frame Fo.25 with due clearaice; on that proper clearances are provided between fuscing attracture components and engine (on top and

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Supplement to Inspection	PROCESS CHARE	Bo. 70	In 17 sheets Sheet 6	
Power flast Explosurest of English			Man-hours required - 48.00	
Procedure	fechnical requirements	Fault correcti	on.	
	Take away engine with due care			
	to avoid brushing of engine acces-	(the state of th	'	
	sories against fuselage structure ats			
	components or against engine mount;			
The second secon	if necessary, change engine position		·	
	by manipulating trolley adjustment	the state of the s	· · ·	
14. Renewe the following accessories	e elements	1 :		
and units from engine:	1	•		
(a) two hydraulic pumps E3-34;	.1	1	- 1	
(b) two teccometer generators IT9-1;	:	· ·	- 1	
(c) mermo-couple set TER-115;	1	1 2 2 2		
(d) oil pressure transmitter IRS-87		· · · · · · · · · · · · · · · · · · ·		
(e) two connections with gause, for	A section of the section of	1		
air discharge from unloading chambers:				
(f) oll system centrifuge connection	s	I is a supplied to the contract of the cont	ta fa la la la la la la la la la la la la la	
(reinstall after mounting engine into		I i ali e zation	- L	
funtlego);				
(g) connection for air supply into				
coccpits	1. 5 75. 4			
(h) fuel system pressurisation pipe		1 -	,	
with non-return valve;	1		,	
(1) competion with irain sock for	į į	į.	ļ	
fuel supply into booster pump;	1	1	,	
(4) fiel system went pipes;	Then hoisting and installing	1	7	
(k) ring on engine inlet flange	angine, take care to avoid damaging		7	

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Sanitized Copy Approved for Release 2011/02/18 : CIA-RDP82-00038R001700180001-5 SECRET/NO FOREIGN DISSEM .50X1-HUM... inglement to Inspection Guiderap.21 In 17 sterte Eheet 7 ENIZO: O END KIR KIR facinited requirements required - 48.00 engine pipelices and accessories by Femile correction lifting device cables it. Fit special blanking covers and up into all pipelines, air intake use, untime accessory unit flanges; use suffice intake and extens fuoto its utime intake and extens fuoto its little device to engine sulpping case support 17. Perform processing of angine comal surfaces in accordance with bress Cart Bo.71 H. Secure engine to support Engine attachment is accomplished Engine attachant is accomplished in two planes;
(a) at aircraft load-parrying attachment fifting (compressor rear housing) — to two mids breakers;
(b) at frunt flange of turbine first stage notale assembly casing—to breakers arranged in centre part of contrast. 5. Secure peckage containing spare to set for one engine and sircraft medicals but to case support For reliable attachment of ongine to case support, see that support bolts, coupling it to case bottom are securely tigotened, and that pins supporting engine are locked SECRET/NO FOREIGN DISSEM

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2-6-2-			·			In 17 shee Sheet 8
SOURS MARS (A.)	BPAC	DEED OF ENGINEE				Ham-hours required - 48
Procedure	fachnical requi	Penents		Fault corre	-ctic	
20. Pat case cover over support, fi in place face wall of case, secure them with bolts to support and apply seals to abipping case.	t Cover is held to a bolts	tse by four				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E. Bosine Translittion						•
 Chaptek cagine in the following order: 			45 (4		از موارش	
(a) remove four bolts helding cover to bottom;						
(b) detach and remove cover wall; take cover off case bottom;					2	
(c) take out spare parts set and directivearried tools kit, Check to						
(d) remove cover from engine;					-3 (2	-
(e) secure lifting device to bolts and brackets;						
(f) release attachment fittings scuring engine to case support; (g) hoist engine and place it on						
rolley, firture bolts and brackets in	Them boisting and no on trolley, taxe care to		+ 4	- 17		
	engine pipalines and wir duraged; see that listin cables do not touch engi or units. It will be rea	TA COMMON				



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		· · · · · · · · · · · · · · · · · · ·	, a.
Supplement to Impaction Ouide Sec21	PROCESSATERE	Bo? 70	In 1? shorts Sheet 9
POPER PLUTZ	EFACTOR OF MORE		Man-hours
Pressbare	Sechnical requirements	Fault correction	
	sentre of gravity is located at a distance of 165 mm from rear housing joint (towards adjustable jet mossle)	U	
2. Ungank edjustable jet noszle es	the contract of the section		. (Tarana)
follows:			
(a) reserve jet montle hydrenlic com-	the services of the services o	ار ³ ز	r
trol mais:			
(b) release attachment fittings as-			
curing edjustable jet nozzle to cass		. , `~	
(a) being lifting are belts under			
jet nozzle casing, hoist jet nozzle and		F 1	
place it om trolley;			
3. Deprocess external surfaces of			
engine is accordance with Process chart Ho.71			
4. Hake external inspection of engine			
directing particular attention to the			
following points:			1.5
(a) attachment of engine units and	All units should be securely		
assemblies;	fastened and locked		
(b) attachment of angine feel, oil,	Pipelines must be reliably secured		
and air lines	and locked. Clearences between pipe-		
	lines should smount to not less		
	than 3 mm. Ehere rigid joints are		

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Supplement to Importion	PROCESS CALES IN	70	In 17 sheets Sheet 10
POCE FAR	PRICES OF MAIN		required - 46,0
Procedure	fechnical requirements	Fault correcti	×8.
	provided, (casing, brankers, flances, etc.), clearance must be equal to not		** *** <u>*</u>
(c) attachment and condition of engine electric wires;	less than 1 mm Electric wires abould be securely fastened and locked; plug connectors		
(d) presence of place in unions for measuring instruments;	Enough be sept clean Unions serving for taking measure— ments on ground about be fitted with		
The second secon	plugs. Unions for connection of maine instruments taking measurements during engine operation should be fitted with		
(e) presence of souls on adjustable elements	ancessory plugs coated with red paint Should any defects to detected on engine, draw up statement to the ef-		
Beauve soccessory plugs from engine and fit engine with units and assemblies	fert and hand it over to Mrnufacturer Removal of accessory pluss from		
referred to in Item 14, Section 4 of present Process Chart	done just before installing units or pipelines connected		
5. Cherr to see whether angine com- partment has been properly propared for rigine installation	Engine comparisons should be cleaned of dust, dist, traces of oil or fuel and foreign objects		
Deer intake dust surfaces for clearliness and condition Restall engine in the reverse	Caygen supply system must be fil-		
order of disperting	led with mitrogen. Prior to commerting		

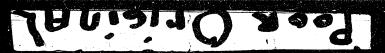
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Supplement to Inspection Guide No.21			÷ 4a
PORES PLANT	PROCESS CEAR	Bo. 70	In 17 sheets Rest 11
	ESPACINETY OF INGINE		Men-hours
Procedure	Technical requirements	Pault correc	'
	rollers should be nursed out as indi- cated on access panel Then sessuring clearance, do not employ any levers, which are likely to		



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Saide Bo.21	PROCESS CHART	¥6. 70	In 17 steets Sheet 12
PORTE PLANT	ESPLACEMENT OF ENGINE		Feb-hours
Proceedings	Technical requirements	Fault correcti	ine .
(b) check to see that telescopic rin mas been installed properly;	hand effort	If clearance amounts than 6.8 ts, replace tel	to more
 (e) fit in bolts securing telescopic ing joint, install gasket without screen ad tighten up note; 	After bolts are fitted in, clear- ance of 0.8 mm is allowed between ring face and gasket (at both sides,	DEER COM	
(d) remove boilts; reinstall them slop			Markan day Markan
in screen; tighten and lock bolton. 11. Little immalling telescopin ring, set axial displacement of adjustable			
t mestie in telescopic joint (with selege cose section joined) 12. Comment oxygen supply pipeline to	det monnie mint not be less than 6 mm (with regard to clearence """) (see Pig.153)	-	5.
13. Feriers joining of sirerait as	Should it be necessary to		
arance "" between adjustable for	is allowed to clerk angles attended		Page 1
ale and afterturner diffuser	adjustable jet nortle on ground, provided jet nortle is secured to trues Prior to starting flusting		
Kair Frei Pretar	starting fuel tanks		
(a) entrot ground power supply source	Brain processing compound from		



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Supplement to Inspection Guide No.21 In 17 storts Sheet 13 PROCESS CARRY 10. 10 Kan-hours EPILODON OF BRIDE Procedure Technical requirements to sircraft maines fuel pipelines through fuel drain main on unit 5870 (b) remove screw cap from air release on on unit 3570 and connect air disphergo device BE-835; (a) open fuel shat-off valve and Discontinue flushing procedure as soon so stream of fuel flowing from hose does not contain air bubbles, but only after 8 to 10 lit. of fuel has tail booster pumps; (d) after completing flushing, switch iff booster pumps and reinstall scree cap firm replacing ruber scaling rings (e) use the same procedure for flush-ing regulating feel pump EP-210 by com-lecting device EF-556 to relief value Pireline Supplying Starting Puel to Starting Liectry-Magnetic Telve (a) set switch AIRCRIFT GROWD STORAGE HITEH (APOCKTATUR EXPENDED LEPOLTORESE) in OS (ANIAGRA) contion; O, set switch PACKTSING (MESCHTH-(c) turn on switch STARTING UNITED (LTYPE 12 3127 CAT) (190-25);

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From the state of	Stypicanent to Inspection Outline No.21	-AL		1 R 0	2232	Ê., 1	P 30.	7 0	-			17 st Sheet :	
(d) turn on switch STAFFED IN AIP (e) discourtine flushing procedure as some as stream of starting fuel (Learning for adversal train valve) controls no one stream of starting fuel (Learning for adversal train valve) controls no one stream of starting twin and starting fuel interest, set switch STAFFED IN fair interest position; (f) after flushing axin and starting fuel interest process of the first by loth Extractic System (a) comment ground kydramite unit; (b) switch off interlocking systems and 800 system by turning server i on tertemper control unit IAS-IN in MINING OFF position; (c) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (e) single frame control layer 3 to discourse frame from switch AFFEDDING; (d) turn on switch AFFEDDING; (e) turn on switch AFFEDDING; (f) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (e) turn on switch AFFEDDING; (f) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (e) turn on switch AFFEDDING; (f) turn on switch AFFEDDING; (d) turn on switch AFFEDDING; (e) turn on switch Salffed rule will interest turn of flags ring must be turned for the fuel of the fuel	PORTE PLANT	EXPLAINMENT OF ENGINE											
(a) cannot ground hydrallic min; (b) strice of interlocking sain and starting and precision; (c) arrest crain valve) contains no core air bubbles; (f) arrest finaling axin and starting and pipelines, sat switch Symptom (g) representation; (g) run areas splashed with final by one Ericalic Symptom (g) cannot ground hydrallic unit; (b) switch aff interlocking systems and Non system by turning serves i on tertemer control unit IAP-IN in tertemer			?ecm	icel r	equiremen		T	·				ne -	45.0
closed (c) discontinue flushing procedure as some as stream of starting fuel (inering fuel closeing fuel aircraft drain valve) contains no one air buttles; (f) after flushing axin and starting and pipelines, set switch Stierray II (g) after flushing axin and starting and pipelines, set switch Stierray II (g) in initial position; (g) rub areas splashed with fuel by loth Extractic System (e) comment ground kyrimalic unit; (s) switch aff interlocking systems and NOO system by turning serves I un terred for position; (a) turn on switch Affichering; (b) turn on switch Affichering; (c) turn on switch Affichering; (d) turn on switch affichering; (e) single and head stop to Full and for the full doing so, observe sevenant of full and full switch are that there are no eir locus in paralle system; Wiselignment of flags ring must be taked that there are no eir locus in paralle system;	(d) turn on switch STARFIES IS ATP	32	7790				-		amt c	Trect	1102		
(e) discouring flushing procedure as one as stream of starting fuel (inering one stirmant drain valve) connects no one stir bubbles; (f) after flushing sain and starting and pipelines, sat switch Sylvenia [H in initial position; (g) rub areas splashed with fuel by oth Ericalic Syntem (e) cannot ground hydraulic unit; (b) switch aff interlocking systems and No system by turning serves I on bertwarer control unit IAP-IN in Extractic Syntem Letturer control unit IAP-IN in Extractic Syntem (c) switch aff interlocking systems (d) turn on switch Afficients; (d) turn on switch Afficients; (d) sairt engine control lever 3 to freeze from REITER Stop to FULL AFG- TO stop and back Wiselington of flaps ring must not exceed from the process seveness of principle for the principle of the principle	3 500075) (38),				ASTAG ST	ould be	1			-			
The already of Starting fuel (Leging for already from white the value) contains to the bubbles; (f) after Starting and pipelines, set switch Starting and pipelines, set switch Starting and pipelines, set switch Starting and pipelines, set switch Starting and for areas splanted with fuel by (g) rub areas splanted with fuel by oth Extractic Swates (a) comment ground kydraulic unit; (b) switch off interplocking systems and Non-System by turning served and Non-System by turning served and Non-System by turning served and Non-System by turning served in the starting and the starting start and starting start the same from Starting stop to Full ADG. Extractic System by turning served and starting start and starting starting start the same from Starting s	(9) discontinue fluente.		,2,				i						
constitute train valve) contains no our six buffles; (f) after flushing axin and starting and pipelines, set switch Starting II in initial position; (g) reb areas splashed with fuel by oth Estimatic System (e) cannect ground hydraulic unit; (b) switch aff interlocking systems and 800 system by turning serves I un perfect or the system of position; (g) turn on switch affectoring; (g) turn on switch affectoring; (g) turn on switch affectoring; (g) turn on switch affectoring; (g) turn on switch affectoring store I under the first eight control layer 3 to ince from Rinter atop to Full about the fille doing so, observe account of Fulls doing so, observe account of Fulls doing so, observe account of Fulls affect that there are no air locus in hydraulic collectors.							1.	54 Te		٠.,			
(f) after flushing and and starting all pipelines, set switch STARTIN IN in fact that position; (g) The areas splanted with full by other and starting systems and so system by turning server i methodology systems and so system by turning server is an extract coursel unit IASANI in CAIRG OFF position; (a) turn on switch ATHERDISTR; (d) suite engine control lever 3 to insee from RITITE stop to FULL AND. Entile doing so, observe accusant of stury and stop and hack This control artifacts of the suit locus in purished that there are no air locus in any suite system.	The state of the s						1	*					
En intitutie position; (a) rath areas splashed with full by oth Entratic Strains (a) cannect ground hydraulic unit; (b) switch aff interlocking systems and 900 system by unring served in extraors control unit Lie-LN in CRIME GRE position; (c) turn on switch Afficheurstr; (d) shift engine control lever 3 to be for the strain of strain and head of the stop and head. This coing so, observe movement of a ring, Properly Aligned ring will not exceed 7 m. Any difference in hydraulic collectors.	TA BIL BRIDGIES!						1		-	·	1		
Extractic System (a) carried position; (b) switch off interlocking system and NO system by turning serves i on extractic council interlocking system and NO system by turning serve i on extractic council interlocking system (a) turn on switch APPROMETR; (c) turn on switch APPROMETR; (d) surful engine control laver 3 to fine from RITER stop to FULL ARG- This coing so, observe accessed of which offers on observe accessed of which is the turns are no eir locus in by saille system.	(f) after flushing wain and streeting		····					·	·			·. :	
(a) connect ground hydraulic unit; (b) switch aff interlocking systems (a) connect ground hydraulic unit; (b) switch aff interlocking systems and NO system by turning serve 2 un enthurser coursel unit Mad-NX in KING (MF position); (c) turn on switch MFERRUSTR; (d) sairft engine control lever 3 to leve from MINTER stop to Folk MG- D stop and back Thile coing so, observe morament of a wing, Traphily aligned ring will have that there are no air locus in hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator and minterlocking hydraulic orlinator hydraulic orlinator hydraulic orlinator hydraulic minterlocking hydraulic							í						
(a) connect ground hydraulic unit; (b) switch off interlocking systems and 800 system by turning serve I on erburner coursel unit Lie-LK in CRIFF (FO) position; (b) turn on switch AFFERDURIE; (c) turn on switch AFFERDURIE; (d) thirt engine control lever 3 to less from RITTER atop to FULL ARGOUND stop and back Entile doing so, observe moreannt of a ring, Properly Aligned ring will not exceed 7 m. Any difference in anything state.	an amittel position.						1						
Extractic Symics (a) cannect ground hydraulic unit; (b) switch off interlocking systems and 900 system by turning serves i on ertermer control unit Lab-LN in CHEC GPP position; (a) turn on switch ATMONUMER; (b) swift engine control lever 3 to these first SHITER stop to FUL APP- D stop and back Fills doing so, observe acreams of a wing, Traphily Aligned ming will have that there are no air locus in any smills syming are to air form in applies are the times are no air locus in any smills of linear to any single of the stop and any single of the stop and the	(E) The areas splanted with one be						İ						
(a) connect ground hydraulic unit; (b) switch off interlocking systems and NO system by turning serve I on extenser control unit Lishik in CRIME OFF position; (a) turn on switch APPLICATE; (d) smirt engine control lever 3 to itse free REITER stop to FULL ARG- This coing so, observe movament of swing, Properly Aligned ring will not exceed 7 m. Any difference in hydraulic cylinders and difference in hydraulic cylinders and	012						1						
(a) cannet ground hydraulic unit; (b) switch off interlocking systems and 900 system by unring serve I on erturner control unit Lie-LN in CRIME GEP position; (a) turn on switch AFFENDUMEN; (b) turn on switch AFFENDUMEN; (c) there engine control lever 3 to tens from AFFENDUMEN; (d) shift engine control lever 3 to fine of the AFFENDUMEN; (d) shift engine control lever 3 to fine of the shift engine control lever 3 to fine from the control lever 3 to fine from t	Evirentic System						1						
and NO system by turning serves in statement of control with Lab. In in CRIM (OFF position) (a) turn on switch Liversymp; (b) suits engine control lawer 3 to insee from Rillion stop for Full LEG. Entire doing so, observe movement of finish ring lawer in the control with lawe	(e) cornect crowd red-14						ĺ						
central mate 140-131 in CHISCONTIC. (a) there exists a story to Fill about the fill ending so, otherway are marked to the fill could so, otherway are marked to the fill of the fill could so, otherway are marked to the fill of the fill could so, otherway and fill ending so, otherway are marked to the fill of the fill could be fill of the fi							ł						
CCING OFF position; (a) there are no eir loces in here are no eir loces in hydrause.					- "			100		100			
(d) shift engine control lever 3 to beet from Aller atop and hote from Allers atop to Fold Ang- Bails doing so, observe movement of a ring. Properly aligned ring will not exceed 7 m. Any difference in any from the ring and any from the ring a									3 to 1/2 to				
(a) stift engine control lever 3 to less from the stift engine control lever 3 to less from stifted at the stop and hard. Wiscliff engine control lever 3 to Fill Affect the stop and hard from the stift at the stop and hard from the stift engine the stift engin	CELEG OFF TOUTS OF					-		*.	21				
(c) smire engine control lever 3 to the first stage of the first from RITTER stop to FULL ARG- Entire doing so, observe avenuent of Fathe doing so, observe avenuent of Fathe vince, Properly aligned ring will not exceed 7 m. Any difference in any subtraction.	(a) turn on entre												
Entire Military and healt Thile doing so, observe movement of Wiselignment of flays ring mist mate that there are no air locus in mathe synthem.	(d) stiff spring and a second state;					-			1				
Faile doing so, observe novement of Wiseligment of flags ring must not what there are no air locus in hydraulic oplusors and sufference in hydraulic oplusors.	ince from Rivers of Control lever 3 to							64					
Wishing the state of the state	STOR AND AND TO FOLL ARG.					18-11 i	. ,						
not expect aligned ring will not exceed 7 m. Any difference in hydraulic symbol.	Prille defen		-	-				- "			•		
white markers are no air locus in paytomic orbitals of the control in	The so, observe movement of	Visa?	1		_	1							
salid system: are no air locus in hydranic orlange to the system in	name and a state of the same and	t ezenn	- 7 -	. or :	reta stat	3 20 20 2							
		iranite		. 127	criticano.								
				der ro	d project	ಚರ್ಮ ಕ್ರ							



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Supplement to Impection Duide No.21	PROCESS USART	Jo. 70	In 17 storts Exect 15
KORIZE PLATE	REAL OF INCIDE		Enn-hours required - 48,00
Prosedure	Technical requirements	Pault correct	1 704
(e) check time period required for cylinder rods to smift from one position to acother in compliance with Process Chart No.67	Ring misalignment should be obscied as follows: 72 soon as one of rods sets against stop (eith rods noving to MAIREM position), measure distance between shanes of two other rods and atops of respective cylinders. Values		
(f) set all switches and circuit reakers in fairful position efter fluo- ng of pipelines is completed 15. Deprocess internal surfaces of	obtained will indicate degree of mis- alignment	*	
ngine in ocapliance with Process mart Ho.71 16. Check operation of adjustable jet could hydraulic control system as instructed in Process Chart Ho.67 17. Set time lag value on afterburner mitrol unit Lie-132, with regard to feel		*	
of adjustable jet morale flags in con- innes with data presented in engine rrice Log 16. Check main flams igniter exygen rply system, proceeding as follows:			

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Supplement to Inspection	увосия в сна	2 5 200 70	In 17 shorts Short 16
POWER PLANT	BEDITCHESE, OF BEGIN	Ean-hours required - 48.0	
Procedure	Technical requirements	Pault corre	ction
(a) fill alreraft carges bottle with gaseous conservial nitrogen; (b) fit in present gauge collibrated from 0 to 10 kg/cm², for measuring	via charging union until pressure is brought to 150 kg/cm ² (using felt filter)	182 The control of th	
CUSER presume downstream of non-return raire; (c) make some ground power supply source is commercied to aircraft mains; (c) open cuyen supply bottle shint- off valves;		- W - 14.	e e e e e e e e e e e e e e e e e e e
(e) turn on MARIE STITCH, as well as switch STARTHE THITS (MEO-25); (f) set switch CHICART (METHOD) (EX.) in CHMCINE (MECHINI) Position and Sensure CUIPM pressure downstress of non-return valve;	Fitrogen pressure downstream of non-return valve must amount to 6.5 - 8.5 kg/cm ²		
(g) recove pressure gauge and its is substitute plug; (h) treat non-return oxyger valve- rix-eiteraft pipeline fourt, as well as plug fitted into maion for measuring surgen pressure, with neutral nony four or obsolving sightness of joints;			



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Supplement to Impection Guide No. 21	PROCESS CALLS	- 70	In I? shorts
POSER PLANT	EXPLICITED IN OF REGI	52	man-hours required - 48.00
Procedura	Technical requirements	Fault sorred	
(1) set ewitch migram (EZD) in CHECKING position and release mitrogen; (3) set switches and circuit	when releasing nitrogen, theck above joints for tightness		rmed on soap foam.
breaters in initial positions, detach ground power supply source; (h) charge oxygen bottle	Then charging oxygen bottle, observe due care; hands should be	را شماعد عدم	
19. Start engine and obeck its operation	clean; take seasures to prevent con- tact with oil Checking abould be done on aite allotted for the purpose		
and a superior community of			
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•		\$	



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Supplement to Inspection Swide No.21	PROCESSEELET	36. 73	In 11 sheets Sheet 1
POR PAR	PROCESSIE AND METROPIS	Fan-hours	
Procedure	Technical requirements	Pault correcti	
1. Internal Processing		£	
1. Perform starting and thecking	Engine starting and checking		
of engine at all ratings including	should be performed on site allotted	4	
exempted rating	for the purpose, with sircraft		.14
engantes Inting	securely fastened		and the second
2. Process internal surfaces of	securety lastened	المحاورة بالأوراد	s
engine as follows:			
(a) check to see that processing	Pespective certificate will		
oil has been tested in laboratory:	be walld for not nore than 7 days	•	
or was seen rested to Productolli.	from date of insue		
(b) fill tank for internal proces-	Por internal processing of fuel		
sin; with oil (Fig.158);	and cil systems, employ oil MY-8,		
•	State Standard FOCT 6457-53. 012		
proceedings of the control of the co	properties should comply with require		
	ments of State Standard NCT	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
	Specifications. It is strictly	A	
	prohibited to miliate oil containing		
	traces of mater, or reclaimed, or		ori, in the si
	used oil. Insert oil into tank through		
	silk filter. See that ro dust, dirt,		
	or foreign particles find their way		
	into tank. Processing oil tank must		
	be fitted with locator purp equipped		
	with reducing valve and filter 07-1	,	
* *	or \$7-2 at the outlet		



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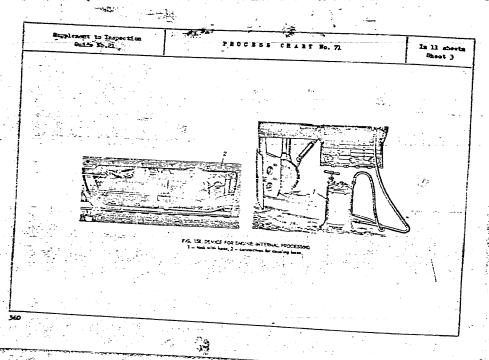
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Supplement to Inspection		71 3	*
Guide So.21	Process car	R 2 Bo. 71	In 11 shorts Short 2
POUR PLAN	PROCESSIES AND DEPRO	CASSIN OF PERIOD	Ban-hours required - 5
Procedure	Technical requirements	Pault corr	
(e) drain oil from engine oil system vin oil tenk and accessory gear box drain seekgi. (d) fill oil tenk with fresh oil after ebecking respective Certificate;	if engine operation amounts to not sore than 10 hours Oil tank should sortain H20.5 lit. of oil, as measured by		
(e) close fuel shut-off valve; (f) drain fuel via fuel-oil unit drain cook; discharge fuel from drain tank by recoving ping;	dip etick		
(g) pour at least 3 lit. of oil into starting fuel tank; (h) comment hose running from	oil pressure at inlet to booster pump RES-15ET sust be equal to 1-07-1-7 kg/cm ² Prior to connecting processing		
internal processing tank (Fig. 158) to processing union located on ripe supply- ing fuel to booster pusp AUS-15AT	pipeline, flush it with all Ease tips should be clean	Fash in clean beros	J esse
(1) use hose of device EE77-535 to connect unions for measuring after- terner feel pressure with usion serving for accounting fuel pressure in pilot			
uel menifolde; (1) trpply mitrogen under pressure if 2 to 4 tr/on ² (wim filter) to union or measuring outgen pressure; blow			



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Supplement to Inspection	PROCESSOR	+1 ? sc.71	In 11 shorts Speet 4
POSTS PLAS:	MODERNIAL TAD THE WEST	in of india	Bas-hours required = 6
Procedure	fachnical requirements	Familt corr	*ction
cryten system with mitragen during	,		
crecess at			
3. Carry out engine cranking, for	•		-
stich purpose proceed as follows:			
(a) comment ground power supply!		in the second	
source to aircraft mains;		The second secon	
(b) terp on following switches and			
circuit breakers:		10 A	
STORAGE BATTERY, ALPCEAPT, CHOUSE (By)	Switch 874200 IN 130 (180-10)	15 5	
(set it in ON position);	goet be get in eff position.		
STAITISC UNITS (A3C-25); APTYSPULKE	Switch CHICKLY (EXC) should be	•	
(ASC-15); MMPING WAINE (EC) on engines	set in OFERING position	į	
or 5th series; FROCESSING (ME) (set it			
in E position);			
CRAMING (ED) (set it to CRAMING post-			
tion);			
(a) disconnect blocking systems IS			
and 500 by turning screw I located on		*****	
Miterburger comirch wait 119-131;			
(d) set engine control lever in	paperesing of button MARIES ON		
TILL AURESTED position, press button	GROUND will cause generator to spin		
STARTING ON GROUND and heep it pressed	ergine rotor. Estors should spin		į
or 1 to 2 sec.:	smoothly, without knocking or hinding.	1	
	24 7 supply system in employed for		į



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Septement to Inspection	2100335 61	14 B f Ro. 71	In 11 stests Steet 5
PORE HAR	PECCESSIFI AND INFECCESS	Fequired - 6	
Procedure	Technical requirements	tion	
(e) creak engine a to 5 times to ascomplish processing of internal surfaces	is switched from 24 to 18 Y. After cranking engine 5 times in succession, allow starter to cool form for not less than 30 min. before cranking engine again. This cranking engine, shift engine control lever 2 to 3 times from IRLIED rating stop to EMERICAL stop.	1 성명 (A) 보호 (A) 보호 보호	
to Set internal processing tank switch in Cr position (this should be done, when depressing button STARTING OF EROCAS) D. Priceral Processing 1. Step all Spen unions with special	After final cranking of engine, oil should issue from crain pipes of main and afterburner combustion chambers in full stream		
pungs or plugs made of cellophane film	External processing or opera- tions or removal of surface corrosion must not be performed during rain or showfall	interpretation of the second	

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	· · · · · · · · · · · · · · · · · · ·		
Supplement to Importion Guide So.21	PROCESS CEL	17 50. 71	In 11 sheets Steet 6
POPER PLANT	PROCESSIES AND DEFENDEN	12 or 12 121	Han-bours required = 6
Procedure	Technical requirements	los	
 Eips external surface of engine tot interferer with eloth stated in clear gasoline. By surfaces subject to processing 	Nies proceeding so, take care to see that graphics or processing compand does not get on electric wirting, relief jet of starting foel control unit incorporated in twel regulating pusy IM-216, greenatur ICP-CT-124067, booter coil EM-114, or adjusting seedles. If corroded spots are detected on aggine external parts, resour corrosion	Clean corroded specify cloth treated with parts IM, sain w, and coat with processi	th oil, polish lik olam gasolin
). Treat external surfaces of setal components wold of paint continue with thin layer of processing compound, thin layer of processing compound, but the continue of after-burner	por external processing of engine non-pairted setal parts use neutral petrolatms, State Standard POCT 782-53 Petrolatms may be substituted by aviation of 10 MC-20 or MC-22, State Standard POCT 1010-49, with addition of a to 10% correions, State Standard POCT 245-47, processing coopeums abould meet requirements of respective State		

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Supplement to Inspection Cuids Bo.21	PROCESSIONANT	n n	In 11 sheets Shoet 7
POCH PLIS	PROCESSIFG AND INFRO	CESSIA > ESGLEE	Ren-hours required - 6
Procedure	Technical requirements Fault of		tion
	standard NOT Specifications so far as its properties are concerned. These of processing compound is allowed only in case solsture content is equal to area. It is strictly prohibited to writize reclaimed or need processing compound. The brush or atomiser for carrying out processing procedure. For liquifying processing compound, petrolaum should be	Remove colsture fr ocmpound by heating it of 110-12°C, until no on heated oil surface	to temperature
4. irrange 30 million gel bags on engine. From this number 6 bags must be arranged in diffuser, and 8 - in fre borsing. Bemaining 16 bags should be arranged as follows: (a) in the vicinity of engine accessories - 5 bags; (b) on compressor front housing - 5 bags; (c) on compressor rear housing - 1 bags;	preheased to 80-90°C, and avaition oil and caresine mixture - to 60-00°C. Bags should be fastlened at both emot. Take care to prevent greaning of bags (place bags on top of paraffined paper). Silica gel should be freshly dried and its roisture content should not exceed 29		



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Supplement to Inspection Guide Bo. 22	PROCESS CRAS	£ 30. 71	In 11 sheets Sheet &
POTER PLANT	Aforegies han deutschatz	IG OF ZHOIM	Han-hours required = 6
Processie	Technical requirements	Parlt correc	ties
(d) on turtiue housing - 2 bags 5. Fut blacking cover on diffuser, pit castle cover or painted hyprood blacking cover onto frost housing 5. Frap engire in two layers of			
paraffine pages and bind it with twine 7.5 Shore to dilice gel bags on top of puraffine paper (distributing then uniformly on entire engine surface),	irrange humidity indicators on engine so that they can be observed through cover film and through case		
coving data should be indicated on tag:	carefully press cover to engine to recove any Sir		
regime Bo., date of processing and stringe expiration date, number of silica (c) bags, signatures of person in charge of processing and that of inspector			
10. Enter date of processing and atorage expiration date in engine Ex- vice log			
1. Wash external parts of engine coated with processing compound with clean gasoline, using breath			_

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Cupplement to Inspection Suide No.01	PECCISS CHAP: No. 71		Sheet 9	
POTES TURE	FROMESSING AND DECK OF SOLKS OF			
Procedure	Technical requirements Pault correct		*etica	
c. Thirroughly wipe washed areas with dry closh	To not allow gasoline or oil to get on electric equipment components, when deprocessing engine, thick processing compound may be removed with the aid of tenselemen oil heated to temperature of Engelo. Expense of painted surface to gasoline or solvents for more	~		
2. Pain processing oil from engine	than 2 min. is not allowed			
eccessing gear box and engine tack 2. Four fresh cli into engine tack 3. Connect ground power supply source to disconfit gains			*1	
4. Then so following switches and direct breakers: (a) SOURCE BROTHER (B); (b) SOURCE BROTHER (AXC-25); (c) AFTERMENTS (AFC-11); (d) DIVINOUS FAUTE (BY) - for engine followings; (e) ORNOWING (EX) (see it in CRANG- NX position);				



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Supplement to Inspection Guide Mount	PR:CIS3 CE	A 2 7 55. 71	in 11 alects Short 13
PORT PLANT	FERNOESTING AND TERROPES	Esc-tours	
Procedure	fectatist requirements	T	required - 5
(f) PROMISES (FE) feet it in E position) 5. Whe hose of device BNI7-555 to connect unions for measuring Frenche of afterburner fuel with union for measuring fuel pressure in pilot manifold 6. Disconnect blocking system FS and F60 by turning sorew # on afterburne control unit MAD-131 7. Open fuel shat-off valve 8. Start main fuel booster pumps 8. Start main fuel booster pumps 9. Set angine control lever #6. FULL AUXEMIZED stop, press button ETIET- MEM ON GROUND and keep it pressed for 1 to 2 asso. 10. Stop main fuel booster pumps 10. Stop main fuel booster pumps 10. Stop main fuel booster pumps 10. Stop main fuel booster pumps 10. Stop main fuel booster pumps 11. Stop main fuel booster pumps 12. Stop main fuel booster pumps 13. Stop main fuel booster pumps 14. Stop main fuel booster pumps 15. Stop main fuel booster pumps 16. Stop main fuel booster pumps 16. Stop main fuel booster pumps		If my defects are a craiking, insediately dising by turning off circular STAPTING UNITS. Do not crank engine defect is eliminated	ound during continue crack- t breaker



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Stipleses to Disposite Outdo 10.21	1100555	In 11 stepts Sheet 11 Ken-lours required - 6	
posta širot	Processing and recover		
Procedure	Technibal requirements	Fault correct	Lion
Ill set switches, circuit breakers and sorrey I on E45-121 unit in initial positions			
iccezzories		Tools	

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Secional Asses

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Supplement to Inspection Quide No.2)	P 8 0 C 348 548	In 1 sheet Sheet 1	
Porm flast	OPERATION CENTRE OF PERFFE	OFFICIAL CHOCKING OF DESIFTER FOR CICHESESS OFFICIAL CHOCKING OF DESIFTER FOR CICHESESS	Man-nours required - 2
Trooedure	Technical requirement	Pault o	urrection
l. Start and subject expine to trials, with afterburser turned on	ingine performance character tics should comply with Specifics		f engine operation ry out adjustments
2. With engine running, check fuel oil, and hydraulic systems for condition			ens, if not tight
by observing them through respective			
access pasels on funciage			7
:			
			•
Accessories	10.000	Tools	te di Nobel
			医马克氏菌素
••			
			3

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DEPICEABLE CONSCIENT LINES OF MICH

APPERDIZ 1

Bescription	type of connection	Description	Type of connection
Cil States			n engin
Engine breathing line	Pubberised carvas	Petura line of hydraulic fluid from	Ripple
	hose	nosele flap control hydraulic cylinders	
Pain and Starting Poel System	1	ļ	
Emin fuel supply line to booster	Plane	Plane Ignitor Covern Persing System	
perp. type IIS-1337	1	Supply line of low-pressure oxygen	Mipple
Starting fuel supply line to	Eipple	to non-return valve	•
molemoid-operated walve	Later a series of	Blectric System of Engine	a agreer are says
Engine Air Fleed System and Pressur		Connection ZEPSCC45HEZ	
Balance Clamber Pressure Pelief Syste		Connection 2PT20E45EE2 of MC-14	
air bleed for aircraft bot air .	gipple	transmitter	•
seeds (st two points)	Flange	Connection of wires to starter-	Bolt
Air bleed from pressure balance	Plange	generator	1
charter manifold (at two points) Air bleed for shaft blowing	Telescopic	Starter-generator cooling line a	Plange
22 51100 200 200 500100	1616BCOPIE	Proin traten	
Prinaplie System		train lines from two hydraulic pumps	Mipple
Ardraulic fluid supply line to none:	le Ripple	E3-34	l
flap control hydraulic cylinders	2	Peel drain line from EUR-1341	Mipple
770 da da da da da da da da da da da da da		pus; drive	



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	~~~		
Description	Type of connection	type of emperion	Description
puel drain line from electric contactor of EP-325 mints puel drain line from combustion chamber homology puel drain line from collector of afterburner diffuser puel drain line from fuel collector of mousle disphraga assembly diffuser	Tipple Ripple Sipple	Puth drain line from glands of in-21¢ and ET-22¢ mit drives oil drain line from two-speed gear bor real drain line from starting fuel toutrol unit, electric contactor and regulator drive gland of ET-210 unit	Elpple Mipple Mipple

Note. All the Craim lines with the exception of the fuel draim line from the roel contentor of the abstraction of the diffuser are connected into a single common leadest pipe.

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L. Minsteert of angine starting.

3. Milanum of les-messure retor matieus r.p.s.

A. Affirsteen of oil pressure.

5. Affirsteen of the limit switch incorporated in 5. Adjustment of the limit switch incorporated in hydraulic decelerator of replating fuel pury Erello, 6. Adjustment of commod unit.
7. Adjustment of high-pressure rotor maximus replat.
8. Adjustment of time delays of afterburner control NYAMANN.

mi: 140-131,

All the adjusting devices of the excise delivered by manufacturer should be properly locked.

SITETISTS: 1. Prior to carrying out engine adjustment, see to it that the readings of the seasoning insurarents are precise.

insurrents are precise.

2- To ensure that the adjustment results are stable, change the positions of the adjustmenting devices by turning that in. Should it be necessary to turn at adjusting device out turning time angle, first turn it out by the derived angle turn angle, make then turn to an absume again. plus 1800, and then turn it in through 1800.

TRICKE ES SESSESSION

of the adjusting device has several fixed positions (indicated by clicks, etc.), reserve the basic

(indicated by clicks, stc.), reserve the basic margin by nowing the adjusting device through the number of clicks equivalent to an angle of 180°. Upon completion of the adjusting procedure lock the respective adjusting devices and apply scale. In the course of engine operation it is allowed to change the position of the following adjusting elsevents:

(a) the adjusting serve of the enginem r.p.m. limiter incorporated in regulating fuel pump HP-21g;

(b) the HP-212 regulating fuel pump maximum r.p.m.

stop:
(c) the flow restrictor of the hydraulio decelerator
of regilating fuel rusp ET-21s;
(d) the pressure increase limiter flow restrictors of
the last and 2nd branches of regulating fuel pusp ET-22s

(c) the stop of the ET-219 regulating feel pump lever in the ATTAINTEMENT (1976LE) position:
(i) the surface series of the ET-229 regulating fuel pump electrophythalic contactor;
(6) the serve of the starting control unit of regulations are supplied to the serve of the starting control unit of regulations. 

(1) the life restrictor on the alternation and E-225 regulating fuel pump;
(2) the reducing value of the oil unit;
(3) the screws of the limit switches of boosters Di-15 (Dy-211);

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(1) requisiting needs P₂;
(a) allitude corrector needle P₂;
(b) acress E0 and 10 of the p-1 theostat.
The positions of other adjustment elements has be adjusted only by the Exemplations's representative.
All the adjustments performed abould be duly registered in the engine Service Log.

#### Adjustment of Ingine Starting

The engine starting system in adjusted with the use of the ground power supply source.

The adjusting elements of the engine starting

1. The seres of the spring incorporated in the start-

ing fuel control unit which centrols the first stage of the starting procedure (up to speed n. = 18 to 218). When the serve is turned wit the angine accolerates at the first stage of the starting procedure slowly (the temperature of games after the turbine decreases), and

2. The jet serving for bleeding air from the dispirage chaster of the starting fuel control unit, which controls the 2nd stage of the starting procedure (the engine develops speed mg in excess of 16 - 21%).

An increase in the jet orifice disaster causes the engine to accelerate in the second stage of the starting

procedure at a slower rate (the temperature of gases after the turbine decreases), and vice versa.

after the turbine decreases), and vice versa. In case the engine characteristics (the time period required for starting, temperature of gases after the turbine) displayed in the course of the starting procedure cose out of the specified performance limits, adjust the starting system in the following manner:

1. Eaks sure that when the engine control lever is set in INLIGO LATIM (MAIMS ILS) position is sindex lug

.....

of the EP-214 regulating fuel purp lever is located betrees the Indohes limiting the idling rating some on the purp

disi.
2. Connect the pressure gauge and check the feel pressure in the starting sanifold. The starting feel pressure should be within 2.0 2 0.2 kg/m² (without pressurisation of the attarting feel tank, and with the voltage in the aircraft storage battery securiting to 25_y). If the actual pressure does not agree with the opecified value, carry out the necessary adjustment with the sid of the acree accommodated in the reducing value. the sid of the arres accessodated in the reducing value of the starting fuel purp. Shen the sorev is turned in, the pressure increases, and vice versa.

3. Sount the pressure gauge (with the scale range from 0 to 100 kg/cm) for reasuring fuel pressure in the primary fuel manifold.

4. Start the engine after ascertaining that the electric control equipment and the power supply source function properly.

Fore. It is allowed to start the engine with manual control of the fuel supply.

5. Farm up the engine for 1 to 2 min. at a speed wanting to 88 - 90% of the normal rating.

6. Check the idling r.p.s.; these should be equal to the speed (see Pig.159) specified for the given

to the speed (see fig.179) special at the given baroastic pressure.

Adjust the idling r.p.m. if necessary, 7. Check and, whenever necessary, ainst the funl pressure in the primary fuel sanifold with the engine running at idling rating; the pressure should ascent to 21 2 1 kg/cs² for engines fitted with the Emplity purps (beginning with series D). The adjustment procedure is carried out by the representative of the famufacturer; to accomplish adjustment, the sures of the distributing

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valve (FE) should be turned by not more than a quarter of a turn relative to the initial position.

Turning the serve in vill came an increase in the favil pressure.

S. Stop the cagine, recove the air jet, and discussest the selectid-operated valve which centrols

the additional fiels stryly at starting; to easure the field pressure in the primary fuel manifold sount a pressure gauge (made range from 0 to 10 kg/ms²). 9. Without fitting in place the sir jet of the starting fuel control unit and with additional fuel

supply disconnected, start the number than the engine becomes logy (fails to succlose tempthe the nerement of the throttle control lever), manipulate the starting fiel control unit enses to adjust the fiel pressure in the privacy nemifold. This pressure should equal 4 to 5 kg/cs.

Stree. Determine the position of the starting fuel control unit adjusting scree by turning it in as far as it will go and moting the musber of full revolutions.

10. Fit in the starting fuel control unit air jet (1.9-0.3 to 2.0-0.2 us in disseter), and connect the solution-operated valve controlling the additional fuel supply at starting (if provided). Sale sure that the primary fuel manifold is fitted with a prescure range (scale range from 0 to 100 kg/cm²).

11. Start the engine 2 or 3 times.

potes: 1. The engine should start without becoming logs and without excessive rise of gas twicerage.

If the engine fails to accelerate after a complety resume this develops a speed among the complety of the boral retire, as well as in case of last turnly

The allest and the second

appears after the turbine, the Starting fuel control unit stree should be turned out. If the engine fails to accelerate after the engine fails to accelerate after the entire fails to 25 - 274 of the normal rating, reduce the disaster of the starting fuel countries. If surging is experienced at high-pressure rotor speed of about 37% of the sourmal rating, central unit air jet, of the starting fuel central unit air jet, 3. A reduction in the engine acceleration rate is alleved within the high-pressure rotor speed range of approximately 74 to 25% of the cream rating; in this case the total engine surply cutter? School and the forcess of 50 sec.

12. Check to see that there is a certain interval between the mesent when the engine fails to accelerate without temperature rise and the moment of the engine becoming logy with temperature rime (this interval should be equivalent to not less "han three turns of the start-

To case of failure to adjust the engine starting system properly, as well as in case the starting system properly, as well as in case the starting unit to the Kausacturar's representative.

Then through with the adjusting procedure, disconnect the pressure gauges, plug the gauge connections and start the engine 2 or 3 times in succession.

1). In the case with engines turnished with equipment for automoscus starting, proceed as follows; having adjusted the engine starting system with the use of the ground power supply source, theat, the starting fuel control unit scree for the number of revolutions through which it can be turned additionally from the instead which it can be turned additionally from the initial

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position, using fully charged aircraft storage betteries (or some other preer supply source which encurse engine apinning to n₂ = 9 to 115 or the sourcal rating); the acres should turn through not less than 3/4 pf a turn to either side. The checkout procedure is as follows:

(a) turn in the starting fuel control unit scree through 3/4 of a turn from the initial position and chao's the engine starting;

(b) turn out the starting fuel control unit scree through 1.5 of a turn from the last position and repeat the engine starting check. position, using fully charged aircraft storage betteries

If the engine starting energy.

If the engine fails to start with the acres set in one of the above positions, as sell as in case the starting procedure takes sore shan 100 seconds after the sorew has been turned out through 1.5 of a revolution, readjust the starting system as instructed in the Bote to Point II of the present Section. After the readjust-sent check the starting fuel control unit seres again, with the use of the aircraft storage batteries.

The check completed, set the starting fuel control unit norms in the intermediate position.

#### Adjusting the Teling P.P.F.

Prior to checking and adjusting the idling r.p.m., see that when the engine control lawer is in the IDLING RATING position the index lug of the EP-213 regulating fuel pump lever is located between the notohes which limit the idling rating some on the pump disk; there are the first and third notches, as counted from the

CCT-OFF (CTCD) position.
Checkout and adjustment of the idling r.p.m. ab be carried out after the engine has been warmed up during 2 minutes at a speed of at least 885 of the normal rating. Prior to perforzing the adjustment, check the idling rating come by moving the engine comitted lever in eighter chrection between the first and thirm perchase coverted from the COV-CTP position) provided on the EMP-Cly regulating shell push chall. If the idling rating some upper limit r.p.m. differ from the lover limit r.p.m. by more than 1.5%, consoult the Emregativest's representative as to the further use of the EMP-Cly push.

To adjust the idding r.p.m. it is merissary to turn the adjusting head through neveral clicks, so that the idling r.p.m. become equal to the r.p.m. value infrinsted in the Chart for the given harometric air pressure.

Fotation of the adjusting head clockwise causes the idling r.p.m. to decrease, and vice verma. One turn of the adjusting head results in the change of the idling r.p.m. by about 26.

T.p.m. by about 26.

Afforthent of the idling T.p.m. should be accomplished with the ED-D-CT purp and ET-CT-42000M starter-generator

#### Adjustment of low-Pressure Sctor taximum F.P.V.

1. In case the maximum speed of the los-pressure rotor on the properly warned up engine differs from the specified value of 100 - 0.5% it is necessary to carry.

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the supplies and opening the same of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contr

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2. Frim to starting the agine, check the elements of the control and for proper position:

(a) figure deighould be indicated at control pased

[FF-3]

(b) the notch on the index lug of regulating feel pear E-210 should bear over the sixth notch on the

push a recing anothe sear over the sales and the sales of sales.

The maximum r.p.m. abould be adjusted by resetting the hydranlic decelerater sores. Turning the serve in the hydranlic decelerater sores. Turning the serve in causes a reduction in the r.p.m., and vice versa. One of the sales of the sales of the r.p.m. to about 2.2. revolution of the scree changes the r.p.s. by about 2.2 to

revolution of the scree changes the r.p.m. or some revolution of the screen changes to this end set the engine control lever at maintain repeat this grocedure too or the 908 r.p.m. position. Pepeat this procedure two or three vises.

3. Thech to see that regulating feel pur; m-215 does not cause the smailler s.p.m. to exceed the specified value as a result of thanges in the fuel flow into the engine; to check, act as follows:

(a) fetunh for some time the plug connectors from the solvente-organized value and from the limit switch of the afterburner valve incorporated in the E-220 purps.

(b) check the difference between the marisms r.p.m. when setting the engine dortrol leter at the MAINING stop and the FULL AUGUSTED (HOLINE OFFILE) stop. The difference between the marisms r.p.m. values for the two mettings abould not exceed 0.5%.

Should not exceed 100.5%

If the difference between the maximum r.p.m. values for the two certains is found to be in excess of 0.56, replace the feed-back flow restrictor with a new flow restrictor shose capacity is greater by 20 to 30 cm.cm/min.

price: 1. The maximum priminable capacity of the feed-back flow restrictor is 300 cuscapsina. 2. After replacement a series and contact flow restrictor, check the explore and contact flow from the idling rating to the maximum immediate and variations in the engine r.p.s. at engine retained and variations in the engine r.p.s. at engine retained and variations and 100 the maximum included and the series of the maximum contact flower and the series and the retained and the series and the retained and the series of the series of the series of the reper value of 100 flower regulation, such parts of the reper value of 100 flower replaced.

Idenstrept of cil Pressure

D case the cil pressure value turns to be beyond
the specified range it must be adjusted by means of the rotating shark of the reducing valve incorporated in the

If the oil pressure is in excess of the specified value, the shark should be turned out. If the oil pressure is lover than specified, the shark should be turned in. One turn of the adjusting screw changes the pressure by 1 kg/cm².

Fore. If the cil pressure drops by more than 0.5 kp/cr below the minimum pressure Talue, consult the Lamufacturer's representative as to the possibility of further use of the oil unit.

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# Adjustment of Minit Solich | Decemporated in Fedralite Marlemon of Pendeline

Check the hydraulic decelerator operating r.p.m. is

- following succession:

  1. Detach the electric plug connector of the hydrau lic decelerator of the EP-214 pusp and connect it to the engine wis comeole 25,356 taken from the maintenance hit for 20 sirereft.
- 2. While amouthly moving the engine control lever in the range between 90% to maximum r.p.s., watch the filtustration of the indicator light in console 30.356; the light comes on to indicate that the limit switch of the hydraulic decelerator of the EP-216 regulating fuel pump operates as soon as the speed reaches 98 2 16 pormal rating.
- If the motual r.p.s. are not within the specified representation operate the adjusting sores of the hydraulio decelerator switch to bring the lists switch operating repost of the specified range; turning the screw in will increase the r.p.z. at which the limit switch operates and wice versa. One turn of the screw changes these r.p.m. by 3.6g.

Then through with the adjustment procedure, disconnect console Ec. 356 and fit the EP-219 pump hydraulic decelerator connector back in place.

#### Adjustment of Control Dais

The control unit (Fig.147) is adjusted with the following acthods:

(a) by changing the length of control rod 7; EARTY. When adjusting the length of control rod 7, see to it that the holes of the first row (count-ing from the shackle) are not open;

(b) by rearranging the shackle of extrol rod ? isslot of leyer 2 of the EP-21& pump ...

l. When adjusting the length of control yed 7 and the position of the rid shackle in the slot of lever 2, set are 11 of control panel 177-19 and the lever of regulating first pump 187-19, in the COLLY POLICE POLICE PROBLEM 1989 THE COLLY POLICE PROBLEM 1989 THE POLICE PROBLEM 1989 THE POLICE PROBLEM 1989 Lever and the centre of the INF-019 pump shaft should be equal to 55 mm.

Then adjusting the control unit, see that the follow ing is provided with repard to the positions of arm II of the EFF2-15 control panel and lever 2 of the EF-215 regulate-

- (a) when index lug & of the EP-21\$ regulating fuel pump is set at the CUT-CFF stop, the zero division of the EFFF-13 control panel dial should line up with the notch on the
- control panel tody;
  (b) when figures 57 and 68 on the ETFT-14 centrol panel dial are matched with the notch provided on the control used body, the notch on the EP-25g regulating facilities push index lug should bear against the sixth motch on the EP-21g regulating fuel pusp dial; (c) when figures 72 and 73 on the EFF-1g control
- panel disl are aligned with the notch on the control
  panel disl are aligned with the notch on the control
  panel body, the notch on the EP-219 regulating fuel pump
  inder lug should be beground the seventh notch on the
  EP-210 regulating fuel pump disl;

  (4) with the EPT-12 control panel index left 13 set
- against the Full AURISTED stop, the notch on the EF-215 regulating fuel pusy index log should be located beyond the seventh notch on the EP-219 regulating fuel pusy dist.

Then through with the adjusting procedure, check the following:

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1. The limit switches of the DPT-18 control panel for proper operation (making was of occasile No.156, pr(Making was of occasile No.156, pr(Making proper).

(a) when figures 67 - 66 cm the DPT-18 control panel dial are switched with the noteh on the control panel dial are switched with the noteh on the control panel dial with the noteh on the control panel bill with the noteh on the control panel dial with the noteh on the control panel dial with the noteh on the control panel dial with the noteh on the control panel dial become matched with the noteh on the control panel dial become matched with the noteh on the control panel dial become matched with the noteh on the control panel dody operation of cas "as should take places.

Total 1. To above sertimed positions of the ITA-10 coursel part are and ITA-10 recursel part are and ITA-10 recursel part are and ITA-10 recursely part are as a series of the ITA-10 recurse of the ITA-10 coursel part are and the ITA-10 coursel part and the ITA-10 regulating fuel part lever on actions of other series, refer to the appropriate later of italiance loss for the given suries and supplementary bulleting.

Afterwart of Dich-Pressure Potor Parison P.P.V.

In case the marinum r.p.a. value of the high-pres-sure roter in flight exceeds the specified value and reaches zero than 103.54, it is measurar to readjust the maxisum r.p.m. limiter so as to obtain the value of 103.3—0.96.

The adjusting procedure should be carried out as follows:

1. belook and turn off the cap fitted over the screw of regulating fuel pasp EP-225.

2. Adjust the r.p.m. to the specified value by operating the adjusting scree. Furning the scree in increases the maxisum r.p.a. of the high-pressure rotor, and wice

lots. One turn of the adjusting acres changes the maximum r.p.s. value of the high-pressure rotor by 1.7%.

This may result in decrease of the los-pressure rotor This may result in decrease of the los-pressure roter r.p.m.; therefore, determination and adjustment of the los-pressure roter markers r.p.m. on the ground should be performed with the jet nomic flaps fully opened (in the PULL AUXEPTED position); act as follows:

(6) detach the plug connectors of the soleooid-operated valve serving for engaging the afterburner, and of the electrical contactor incorporated in resulating fuel

electrical contactor incorporated in regulating fuel

(b) more the engine control lever to the FULL AUDIEST-(c) more the engine control lever to the FULL ALDERS ID atop to check the maximum r.p.m. of the low-pressure roter; if necessary, adjust the r.p.m. to 100° 0.5s. The above adjusting procedure over; attach the plug connectors and make sure that the afterburner becomes

entaced properly.

Addressment of time pelace of Afterburner Control Box E49-13

Provision is made in the afterburner control bor operation for time delays (with regard to the position of the jet nousle flaps and the rate of feel supply).

To ensure proper time delays it is necessary to set the slotted scrays of the Rif-IM afterburner control box in the respective positions. To slow down the rate of sas temperature drop after the turbing, the time delay of gas temperature drop after the turbine, the time delay

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Adjustment of Paritie inceleration

If the engine performance falls to meet the
especifications carry out the mecenary adjustments:

1. Connect a pressure gauge (with the scale range
from 0 to 100 kg/cs²) to the respective connection
provided on the prisary full manifold.

2. Resours the feel pressure in the primary manifold,
with the engire running at idling rating; the fuel pressure should amount to 21 - 1 kg/cs² (for requisting fuel
puage EP-2½ of X and subsequent series). If the pressure turns to be beyond the specified level, adjust it
by seams of serve K incorporated in the distributing
value; the sores should be turned by not more than 1/A
of a turn from the initial position. Hen the scree is
being turned in, the feel pressure increases (the adjustof a turn from the initial position, then the acree is being turned in, the fuel pressure increases (the adjustment procedure in question should be accomplished after consulting the Hamufacturer's representative, with subsequent checkest of the fivel pressure in the primary fuel manifold during angine starting).

3. Check the time period required for the fuel pressure in the primary fuel manifold (with regard to the first branch of the pressure increase limiter) to increase from Pp.fin. 22 kg/cm² to Pp.fin. 22 kg/cm²; the time period should be equal to not less that 3.0 seconds.

and regard to the jet notale flams position should be increased, whereas the title delpy with regard to the foul Title sure increase lake jince wholl be supply rate must be decreased, and you were.

First 1. The disc period with which the great sure increase lake jince wholl be seasoned dates atting the effice control for the first price with the price of the first branch in gueension.

2. In case impediment to afterburner starting the price of the first branch in gueension with the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price of the first branch in the price o

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FIG. 155. YOU AGE P.M. VS BAROMETRIC PRESSURE

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a. Check the tire period within which the engine accelerates from the idling ropes to the lock ropes. This period about asset the limitations set forth in the thart of Fig.160. The stopwatch should be arrested as a. a con.

FIGURE. If the acceleration time for the first branch is within the specified limits, whereas the full acceleration time is other than specified, adjust the acceleration time by selecting proper flow restrictors for the second branch of the pressure increase limiter or proper feed-back flow restrictors.

5. Check the time period required for the feel presume in the primary feel manifold to increase, as regards the second transh of the presume increase limiter, from P. c., a 20 kg/cm²; this time period should be within 4.8 = 0.6 sec. and at least 5.5 sec. for the argines not provided with autonomous starting posters.

reas: 1. Charge-rest from the first branch of the reasure increase limiter to the second passers thing place at the primary manifold passers that place at the primary manifold the capacity and the first of determine the charge-over pressure value of the capacity annual passers of the capacity annual passers of the capacity annual passers of the capacity and the passers of the capacity values of the capacity restrictors used, range from 70 to 150 tree restrictors used, range from 70 to 150 tree restrictors used, range from 70 to 150 tree restrictors used, range from 150 tree restrictors used, range from 150 tree restrictors the present of the capacity of the strictors of the present of the strictors of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of the passers of

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3. Then adjusting the engine accrleration time with report to the prevent increase limiter, install reportally a life remains increase limiter, install reportally a life remains of continuous capacity which is capable of cutting to live pressure increase limiter. For ecopletion of the pressure procedure, re-install the old flow restrictor. Described as a continuous case of hydraulic decelerator flow restrictors with the capacity range of 50 to 90 cancers with the capacity range of 50 to

6. Check the engine acceleration from the r.p.m. ascenting to 5% pormal rating to the normal rating o loos; while checking, measure the acceleration time to 99% normal rating. This time pariod should be equal to 7 - 10 seconds. If the acceleration time fails to next the specified value, re-adjust the acceleration time by selecting the proper flow restrictor of the hydraulic decelerator.

FLUNINGS. 1. The capacity values of the fowd-back flow restrictors should be within 150 to

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2. Plea replacing the feed-back flow restrictor with a flow restrictor of lower capacity check the engine maximum r.p.m. as instructed in point 3 of Section *4djustment of low-freezants Rotor maximum B.P.M.*

7. Then through with the salinating procedure, check the engine acceleration:

(a) from idling r.p.s. to marisum r.p.s.; (b) from n₁ = 858 normal rating to marisum r.p.s.

Note. Upon replacement of flow restrictors during acceleration adjusting operations flush replacing only man and the site flush eliminate probable air locks.

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F. Check the acceleration saysin by the following service;
(a) accelerate the engine to the natural region and run it at this speed chiring latinute;
(b) reduce the engine rejain to the folling rating and run it at this speed during latinute;
(c) smoothly accelerate the engine to 65% nursel resident and check the engine acceleration time to the maximum rating.

The acceleration time measured during the above check-

maxima rating.
The accoluration time measured during the above checking procedure should differ from that measured during the procedure should differ from that measured during the operations under Point ? (b) by not more than 2 seconds, formit the acceleration time difference be in curses in the acceleration time difference be in curses of 2 seconds, consult the Emerchanture's representative is as to the possibility of further use of the HP-216 regulating feet pump.

price: 1. Buring the engine acceleration margin check, the acceleration time is allowed to differ from this reasured under Point 7 (D) above by the the 2 sec, provided it remains within the specified range.

9. Now the engine control lever below the idling r.p.m. some until the lever reaches the border of the minimum stable r.p.m. some (determined from the Charts preserved in Pics 161 and 162) with flight load applied to booster pump Em-3a and to statter-generator [TP-CT-12000ET; then accelerate the engine from this r.p.m. value. If the engine fails to come up to speed from the reduced r.p.m. (this results in manufact operation), re-adjust the distributing value incorporated in regulating fuel pump HP-218, as instructed above (see roint 2 of the present Section).

If the adjustment proves instructive, replace type EF-216 regulating fuel pump.

10. Electroset-the pressure gauge which has been installed for measuring fuel pressure in the primary fuel manifold, and obtain the original positions of the pipelines and connections.

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